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**Cambridge International Examinations**  
Cambridge International Advanced Subsidiary and Advanced Level

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**ACCOUNTING**

**9706/32**

Paper 3 Structured Questions

**May/June 2017**

MARK SCHEME

Maximum Mark: 150

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**Published**

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| Question                                                 | Answer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Marks          |       |    |  |                                    |  |        |  |           |  |         |  |                  |  |              |  |  |  |         |  |                                    |  |               |  |                                |  |         |     |              |  |                |     |            |  |         |       |                |  |        |  |                  |  |                |     |  |  |         |  |                          |        |  |  |                          |               |              |     |                            |  |         |  |                    |  |                |       |                                                          |  |                |       |              |                            |                    |  |             |                            |                            |   |                    |                       |                   |                                          |   |
|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------|----|--|------------------------------------|--|--------|--|-----------|--|---------|--|------------------|--|--------------|--|--|--|---------|--|------------------------------------|--|---------------|--|--------------------------------|--|---------|-----|--------------|--|----------------|-----|------------|--|---------|-------|----------------|--|--------|--|------------------|--|----------------|-----|--|--|---------|--|--------------------------|--------|--|--|--------------------------|---------------|--------------|-----|----------------------------|--|---------|--|--------------------|--|----------------|-------|----------------------------------------------------------|--|----------------|-------|--------------|----------------------------|--------------------|--|-------------|----------------------------|----------------------------|---|--------------------|-----------------------|-------------------|------------------------------------------|---|
| 1(a)                                                     | <div>Richard Ang</div> <div>Manufacturing account for year ended 31 July 2016</div> <table><tr><td></td><td>\$</td><td>\$</td><td></td></tr><tr><td>Opening inventory of raw materials</td><td></td><td>14 800</td><td></td></tr><tr><td>Purchases</td><td></td><td>207 600</td><td></td></tr><tr><td>Carriage inwards</td><td></td><td><u>6 800</u></td><td></td></tr><tr><td></td><td></td><td>229 200</td><td></td></tr><tr><td>Closing inventory of raw materials</td><td></td><td><u>16 400</u></td><td></td></tr><tr><td>Cost of raw materials consumed</td><td></td><td>212 800</td><td>(1)</td></tr><tr><td>Direct wages</td><td></td><td><u>171 500</u></td><td>(1)</td></tr><tr><td>Prime cost</td><td></td><td>384 300</td><td>(1)OF</td></tr><tr><td>Indirect wages</td><td></td><td>51 400</td><td></td></tr><tr><td>Factory overhead</td><td></td><td><u>161 000</u></td><td>(1)</td></tr><tr><td></td><td></td><td>596 700</td><td></td></tr><tr><td>Opening work in progress</td><td>23 500</td><td></td><td></td></tr><tr><td>Closing work in progress</td><td><u>20 200</u></td><td><u>3 300</u></td><td>(1)</td></tr><tr><td>Cost of goods manufactured</td><td></td><td>600 000</td><td></td></tr><tr><td>Factory profit 20%</td><td></td><td><u>120 000</u></td><td>(1)OF</td></tr><tr><td>Transferred to (Trading section of) the Income Statement</td><td></td><td><u>720 000</u></td><td>(1)OF</td></tr></table> <div>Workings</div> <table><tr><td>Direct wages</td><td>\$168 000+\$3500=\$171 500</td></tr><tr><td>Factory overheads:</td><td></td></tr><tr><td>Total rent:</td><td>\$24 000+\$16 000=\$40 000</td></tr><tr><td>Revised allocation rate 3:</td><td>1</td></tr><tr><td>Factory overheads:</td><td>\$40 000×3/4=\$30 000</td></tr><tr><td>Factory overheads</td><td>=\$155 000+(\$30 000–\$24 000)=\$161 000</td></tr></table> |                | \$    | \$ |  | Opening inventory of raw materials |  | 14 800 |  | Purchases |  | 207 600 |  | Carriage inwards |  | <u>6 800</u> |  |  |  | 229 200 |  | Closing inventory of raw materials |  | <u>16 400</u> |  | Cost of raw materials consumed |  | 212 800 | (1) | Direct wages |  | <u>171 500</u> | (1) | Prime cost |  | 384 300 | (1)OF | Indirect wages |  | 51 400 |  | Factory overhead |  | <u>161 000</u> | (1) |  |  | 596 700 |  | Opening work in progress | 23 500 |  |  | Closing work in progress | <u>20 200</u> | <u>3 300</u> | (1) | Cost of goods manufactured |  | 600 000 |  | Factory profit 20% |  | <u>120 000</u> | (1)OF | Transferred to (Trading section of) the Income Statement |  | <u>720 000</u> | (1)OF | Direct wages | \$168 000+\$3500=\$171 500 | Factory overheads: |  | Total rent: | \$24 000+\$16 000=\$40 000 | Revised allocation rate 3: | 1 | Factory overheads: | \$40 000×3/4=\$30 000 | Factory overheads | =\$155 000+(\$30 000–\$24 000)=\$161 000 | 7 |
|                                                          | \$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | \$             |       |    |  |                                    |  |        |  |           |  |         |  |                  |  |              |  |  |  |         |  |                                    |  |               |  |                                |  |         |     |              |  |                |     |            |  |         |       |                |  |        |  |                  |  |                |     |  |  |         |  |                          |        |  |  |                          |               |              |     |                            |  |         |  |                    |  |                |       |                                                          |  |                |       |              |                            |                    |  |             |                            |                            |   |                    |                       |                   |                                          |   |
| Opening inventory of raw materials                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 14 800         |       |    |  |                                    |  |        |  |           |  |         |  |                  |  |              |  |  |  |         |  |                                    |  |               |  |                                |  |         |     |              |  |                |     |            |  |         |       |                |  |        |  |                  |  |                |     |  |  |         |  |                          |        |  |  |                          |               |              |     |                            |  |         |  |                    |  |                |       |                                                          |  |                |       |              |                            |                    |  |             |                            |                            |   |                    |                       |                   |                                          |   |
| Purchases                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 207 600        |       |    |  |                                    |  |        |  |           |  |         |  |                  |  |              |  |  |  |         |  |                                    |  |               |  |                                |  |         |     |              |  |                |     |            |  |         |       |                |  |        |  |                  |  |                |     |  |  |         |  |                          |        |  |  |                          |               |              |     |                            |  |         |  |                    |  |                |       |                                                          |  |                |       |              |                            |                    |  |             |                            |                            |   |                    |                       |                   |                                          |   |
| Carriage inwards                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <u>6 800</u>   |       |    |  |                                    |  |        |  |           |  |         |  |                  |  |              |  |  |  |         |  |                                    |  |               |  |                                |  |         |     |              |  |                |     |            |  |         |       |                |  |        |  |                  |  |                |     |  |  |         |  |                          |        |  |  |                          |               |              |     |                            |  |         |  |                    |  |                |       |                                                          |  |                |       |              |                            |                    |  |             |                            |                            |   |                    |                       |                   |                                          |   |
|                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 229 200        |       |    |  |                                    |  |        |  |           |  |         |  |                  |  |              |  |  |  |         |  |                                    |  |               |  |                                |  |         |     |              |  |                |     |            |  |         |       |                |  |        |  |                  |  |                |     |  |  |         |  |                          |        |  |  |                          |               |              |     |                            |  |         |  |                    |  |                |       |                                                          |  |                |       |              |                            |                    |  |             |                            |                            |   |                    |                       |                   |                                          |   |
| Closing inventory of raw materials                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <u>16 400</u>  |       |    |  |                                    |  |        |  |           |  |         |  |                  |  |              |  |  |  |         |  |                                    |  |               |  |                                |  |         |     |              |  |                |     |            |  |         |       |                |  |        |  |                  |  |                |     |  |  |         |  |                          |        |  |  |                          |               |              |     |                            |  |         |  |                    |  |                |       |                                                          |  |                |       |              |                            |                    |  |             |                            |                            |   |                    |                       |                   |                                          |   |
| Cost of raw materials consumed                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 212 800        | (1)   |    |  |                                    |  |        |  |           |  |         |  |                  |  |              |  |  |  |         |  |                                    |  |               |  |                                |  |         |     |              |  |                |     |            |  |         |       |                |  |        |  |                  |  |                |     |  |  |         |  |                          |        |  |  |                          |               |              |     |                            |  |         |  |                    |  |                |       |                                                          |  |                |       |              |                            |                    |  |             |                            |                            |   |                    |                       |                   |                                          |   |
| Direct wages                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <u>171 500</u> | (1)   |    |  |                                    |  |        |  |           |  |         |  |                  |  |              |  |  |  |         |  |                                    |  |               |  |                                |  |         |     |              |  |                |     |            |  |         |       |                |  |        |  |                  |  |                |     |  |  |         |  |                          |        |  |  |                          |               |              |     |                            |  |         |  |                    |  |                |       |                                                          |  |                |       |              |                            |                    |  |             |                            |                            |   |                    |                       |                   |                                          |   |
| Prime cost                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 384 300        | (1)OF |    |  |                                    |  |        |  |           |  |         |  |                  |  |              |  |  |  |         |  |                                    |  |               |  |                                |  |         |     |              |  |                |     |            |  |         |       |                |  |        |  |                  |  |                |     |  |  |         |  |                          |        |  |  |                          |               |              |     |                            |  |         |  |                    |  |                |       |                                                          |  |                |       |              |                            |                    |  |             |                            |                            |   |                    |                       |                   |                                          |   |
| Indirect wages                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 51 400         |       |    |  |                                    |  |        |  |           |  |         |  |                  |  |              |  |  |  |         |  |                                    |  |               |  |                                |  |         |     |              |  |                |     |            |  |         |       |                |  |        |  |                  |  |                |     |  |  |         |  |                          |        |  |  |                          |               |              |     |                            |  |         |  |                    |  |                |       |                                                          |  |                |       |              |                            |                    |  |             |                            |                            |   |                    |                       |                   |                                          |   |
| Factory overhead                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <u>161 000</u> | (1)   |    |  |                                    |  |        |  |           |  |         |  |                  |  |              |  |  |  |         |  |                                    |  |               |  |                                |  |         |     |              |  |                |     |            |  |         |       |                |  |        |  |                  |  |                |     |  |  |         |  |                          |        |  |  |                          |               |              |     |                            |  |         |  |                    |  |                |       |                                                          |  |                |       |              |                            |                    |  |             |                            |                            |   |                    |                       |                   |                                          |   |
|                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 596 700        |       |    |  |                                    |  |        |  |           |  |         |  |                  |  |              |  |  |  |         |  |                                    |  |               |  |                                |  |         |     |              |  |                |     |            |  |         |       |                |  |        |  |                  |  |                |     |  |  |         |  |                          |        |  |  |                          |               |              |     |                            |  |         |  |                    |  |                |       |                                                          |  |                |       |              |                            |                    |  |             |                            |                            |   |                    |                       |                   |                                          |   |
| Opening work in progress                                 | 23 500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |       |    |  |                                    |  |        |  |           |  |         |  |                  |  |              |  |  |  |         |  |                                    |  |               |  |                                |  |         |     |              |  |                |     |            |  |         |       |                |  |        |  |                  |  |                |     |  |  |         |  |                          |        |  |  |                          |               |              |     |                            |  |         |  |                    |  |                |       |                                                          |  |                |       |              |                            |                    |  |             |                            |                            |   |                    |                       |                   |                                          |   |
| Closing work in progress                                 | <u>20 200</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>3 300</u>   | (1)   |    |  |                                    |  |        |  |           |  |         |  |                  |  |              |  |  |  |         |  |                                    |  |               |  |                                |  |         |     |              |  |                |     |            |  |         |       |                |  |        |  |                  |  |                |     |  |  |         |  |                          |        |  |  |                          |               |              |     |                            |  |         |  |                    |  |                |       |                                                          |  |                |       |              |                            |                    |  |             |                            |                            |   |                    |                       |                   |                                          |   |
| Cost of goods manufactured                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 600 000        |       |    |  |                                    |  |        |  |           |  |         |  |                  |  |              |  |  |  |         |  |                                    |  |               |  |                                |  |         |     |              |  |                |     |            |  |         |       |                |  |        |  |                  |  |                |     |  |  |         |  |                          |        |  |  |                          |               |              |     |                            |  |         |  |                    |  |                |       |                                                          |  |                |       |              |                            |                    |  |             |                            |                            |   |                    |                       |                   |                                          |   |
| Factory profit 20%                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <u>120 000</u> | (1)OF |    |  |                                    |  |        |  |           |  |         |  |                  |  |              |  |  |  |         |  |                                    |  |               |  |                                |  |         |     |              |  |                |     |            |  |         |       |                |  |        |  |                  |  |                |     |  |  |         |  |                          |        |  |  |                          |               |              |     |                            |  |         |  |                    |  |                |       |                                                          |  |                |       |              |                            |                    |  |             |                            |                            |   |                    |                       |                   |                                          |   |
| Transferred to (Trading section of) the Income Statement |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <u>720 000</u> | (1)OF |    |  |                                    |  |        |  |           |  |         |  |                  |  |              |  |  |  |         |  |                                    |  |               |  |                                |  |         |     |              |  |                |     |            |  |         |       |                |  |        |  |                  |  |                |     |  |  |         |  |                          |        |  |  |                          |               |              |     |                            |  |         |  |                    |  |                |       |                                                          |  |                |       |              |                            |                    |  |             |                            |                            |   |                    |                       |                   |                                          |   |
| Direct wages                                             | \$168 000+\$3500=\$171 500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |       |    |  |                                    |  |        |  |           |  |         |  |                  |  |              |  |  |  |         |  |                                    |  |               |  |                                |  |         |     |              |  |                |     |            |  |         |       |                |  |        |  |                  |  |                |     |  |  |         |  |                          |        |  |  |                          |               |              |     |                            |  |         |  |                    |  |                |       |                                                          |  |                |       |              |                            |                    |  |             |                            |                            |   |                    |                       |                   |                                          |   |
| Factory overheads:                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |       |    |  |                                    |  |        |  |           |  |         |  |                  |  |              |  |  |  |         |  |                                    |  |               |  |                                |  |         |     |              |  |                |     |            |  |         |       |                |  |        |  |                  |  |                |     |  |  |         |  |                          |        |  |  |                          |               |              |     |                            |  |         |  |                    |  |                |       |                                                          |  |                |       |              |                            |                    |  |             |                            |                            |   |                    |                       |                   |                                          |   |
| Total rent:                                              | \$24 000+\$16 000=\$40 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |       |    |  |                                    |  |        |  |           |  |         |  |                  |  |              |  |  |  |         |  |                                    |  |               |  |                                |  |         |     |              |  |                |     |            |  |         |       |                |  |        |  |                  |  |                |     |  |  |         |  |                          |        |  |  |                          |               |              |     |                            |  |         |  |                    |  |                |       |                                                          |  |                |       |              |                            |                    |  |             |                            |                            |   |                    |                       |                   |                                          |   |
| Revised allocation rate 3:                               | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                |       |    |  |                                    |  |        |  |           |  |         |  |                  |  |              |  |  |  |         |  |                                    |  |               |  |                                |  |         |     |              |  |                |     |            |  |         |       |                |  |        |  |                  |  |                |     |  |  |         |  |                          |        |  |  |                          |               |              |     |                            |  |         |  |                    |  |                |       |                                                          |  |                |       |              |                            |                    |  |             |                            |                            |   |                    |                       |                   |                                          |   |
| Factory overheads:                                       | \$40 000×3/4=\$30 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |       |    |  |                                    |  |        |  |           |  |         |  |                  |  |              |  |  |  |         |  |                                    |  |               |  |                                |  |         |     |              |  |                |     |            |  |         |       |                |  |        |  |                  |  |                |     |  |  |         |  |                          |        |  |  |                          |               |              |     |                            |  |         |  |                    |  |                |       |                                                          |  |                |       |              |                            |                    |  |             |                            |                            |   |                    |                       |                   |                                          |   |
| Factory overheads                                        | =\$155 000+(\$30 000–\$24 000)=\$161 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |       |    |  |                                    |  |        |  |           |  |         |  |                  |  |              |  |  |  |         |  |                                    |  |               |  |                                |  |         |     |              |  |                |     |            |  |         |       |                |  |        |  |                  |  |                |     |  |  |         |  |                          |        |  |  |                          |               |              |     |                            |  |         |  |                    |  |                |       |                                                          |  |                |       |              |                            |                    |  |             |                            |                            |   |                    |                       |                   |                                          |   |

**PUBLISHED**

| Question                                    | Answer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Marks          |       |    |  |         |  |         |  |                |  |               |  |  |  |         |     |                                     |        |  |     |                                        |                |  |  |  |         |  |  |                                     |               |         |  |              |  |         |       |                  |  |         |     |                   |  |               |  |  |  |        |  |                |         |  |  |                                             |  |  |  |                                         |              |         |  |                     |  |                |       |                |                                     |                  |                                                            |   |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------|----|--|---------|--|---------|--|----------------|--|---------------|--|--|--|---------|-----|-------------------------------------|--------|--|-----|----------------------------------------|----------------|--|--|--|---------|--|--|-------------------------------------|---------------|---------|--|--------------|--|---------|-------|------------------|--|---------|-----|-------------------|--|---------------|--|--|--|--------|--|----------------|---------|--|--|---------------------------------------------|--|--|--|-----------------------------------------|--------------|---------|--|---------------------|--|----------------|-------|----------------|-------------------------------------|------------------|------------------------------------------------------------|---|
| 1(b)                                        | <div>Richard Ang</div> <div>Income statement for year ended 31 July 2016</div> <table><tr><td></td><td>\$</td><td>\$</td><td></td></tr><tr><td>Revenue</td><td></td><td>986 000</td><td></td></tr><tr><td>Return inwards</td><td></td><td><u>12 000</u></td><td></td></tr><tr><td></td><td></td><td>974 000</td><td>(1)</td></tr><tr><td>Opening inventory of finished goods</td><td>38 400</td><td></td><td>(1)</td></tr><tr><td>Transferred from Manufacturing Account</td><td><u>720 000</u></td><td></td><td></td></tr><tr><td></td><td>758 400</td><td></td><td></td></tr><tr><td>Closing inventory of finished goods</td><td><u>54 000</u></td><td>704 400</td><td></td></tr><tr><td>Gross profit</td><td></td><td>269 600</td><td>(1)OF</td></tr><tr><td>Office overheads</td><td></td><td>188 000</td><td>(1)</td></tr><tr><td>Carriage outwards</td><td></td><td><u>17 500</u></td><td></td></tr><tr><td></td><td></td><td>64 100</td><td></td></tr><tr><td>Factory profit</td><td>120 000</td><td></td><td></td></tr><tr><td>Increase in provision for unrealised profit</td><td></td><td></td><td></td></tr><tr><td>(54 000×20/120)(1)–(\$38 400×20/120)(1)</td><td><u>2 600</u></td><td>117 400</td><td></td></tr><tr><td>Profit for the year</td><td></td><td><u>181 500</u></td><td>(1)OF</td></tr></table> <div>* Must include the item of 'Transferred from Manufacturing Account'</div> <div>** Must include the item of 'Factory profit'</div> <div>Workings</div> <table><tr><td>Finished goods</td><td>01 Aug 2015, \$32 000×120%=\$38 400</td></tr><tr><td>Office overheads</td><td>\$194 000–(\$16 000 – \$40 000 × <math>\frac{1}{4}</math>)=\$188 000</td></tr></table> |                | \$    | \$ |  | Revenue |  | 986 000 |  | Return inwards |  | <u>12 000</u> |  |  |  | 974 000 | (1) | Opening inventory of finished goods | 38 400 |  | (1) | Transferred from Manufacturing Account | <u>720 000</u> |  |  |  | 758 400 |  |  | Closing inventory of finished goods | <u>54 000</u> | 704 400 |  | Gross profit |  | 269 600 | (1)OF | Office overheads |  | 188 000 | (1) | Carriage outwards |  | <u>17 500</u> |  |  |  | 64 100 |  | Factory profit | 120 000 |  |  | Increase in provision for unrealised profit |  |  |  | (54 000×20/120)(1)–(\$38 400×20/120)(1) | <u>2 600</u> | 117 400 |  | Profit for the year |  | <u>181 500</u> | (1)OF | Finished goods | 01 Aug 2015, \$32 000×120%=\$38 400 | Office overheads | \$194 000–(\$16 000 – \$40 000 × $\frac{1}{4}$ )=\$188 000 | 7 |
|                                             | \$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | \$             |       |    |  |         |  |         |  |                |  |               |  |  |  |         |     |                                     |        |  |     |                                        |                |  |  |  |         |  |  |                                     |               |         |  |              |  |         |       |                  |  |         |     |                   |  |               |  |  |  |        |  |                |         |  |  |                                             |  |  |  |                                         |              |         |  |                     |  |                |       |                |                                     |                  |                                                            |   |
| Revenue                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 986 000        |       |    |  |         |  |         |  |                |  |               |  |  |  |         |     |                                     |        |  |     |                                        |                |  |  |  |         |  |  |                                     |               |         |  |              |  |         |       |                  |  |         |     |                   |  |               |  |  |  |        |  |                |         |  |  |                                             |  |  |  |                                         |              |         |  |                     |  |                |       |                |                                     |                  |                                                            |   |
| Return inwards                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <u>12 000</u>  |       |    |  |         |  |         |  |                |  |               |  |  |  |         |     |                                     |        |  |     |                                        |                |  |  |  |         |  |  |                                     |               |         |  |              |  |         |       |                  |  |         |     |                   |  |               |  |  |  |        |  |                |         |  |  |                                             |  |  |  |                                         |              |         |  |                     |  |                |       |                |                                     |                  |                                                            |   |
|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 974 000        | (1)   |    |  |         |  |         |  |                |  |               |  |  |  |         |     |                                     |        |  |     |                                        |                |  |  |  |         |  |  |                                     |               |         |  |              |  |         |       |                  |  |         |     |                   |  |               |  |  |  |        |  |                |         |  |  |                                             |  |  |  |                                         |              |         |  |                     |  |                |       |                |                                     |                  |                                                            |   |
| Opening inventory of finished goods         | 38 400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                | (1)   |    |  |         |  |         |  |                |  |               |  |  |  |         |     |                                     |        |  |     |                                        |                |  |  |  |         |  |  |                                     |               |         |  |              |  |         |       |                  |  |         |     |                   |  |               |  |  |  |        |  |                |         |  |  |                                             |  |  |  |                                         |              |         |  |                     |  |                |       |                |                                     |                  |                                                            |   |
| Transferred from Manufacturing Account      | <u>720 000</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |       |    |  |         |  |         |  |                |  |               |  |  |  |         |     |                                     |        |  |     |                                        |                |  |  |  |         |  |  |                                     |               |         |  |              |  |         |       |                  |  |         |     |                   |  |               |  |  |  |        |  |                |         |  |  |                                             |  |  |  |                                         |              |         |  |                     |  |                |       |                |                                     |                  |                                                            |   |
|                                             | 758 400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                |       |    |  |         |  |         |  |                |  |               |  |  |  |         |     |                                     |        |  |     |                                        |                |  |  |  |         |  |  |                                     |               |         |  |              |  |         |       |                  |  |         |     |                   |  |               |  |  |  |        |  |                |         |  |  |                                             |  |  |  |                                         |              |         |  |                     |  |                |       |                |                                     |                  |                                                            |   |
| Closing inventory of finished goods         | <u>54 000</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 704 400        |       |    |  |         |  |         |  |                |  |               |  |  |  |         |     |                                     |        |  |     |                                        |                |  |  |  |         |  |  |                                     |               |         |  |              |  |         |       |                  |  |         |     |                   |  |               |  |  |  |        |  |                |         |  |  |                                             |  |  |  |                                         |              |         |  |                     |  |                |       |                |                                     |                  |                                                            |   |
| Gross profit                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 269 600        | (1)OF |    |  |         |  |         |  |                |  |               |  |  |  |         |     |                                     |        |  |     |                                        |                |  |  |  |         |  |  |                                     |               |         |  |              |  |         |       |                  |  |         |     |                   |  |               |  |  |  |        |  |                |         |  |  |                                             |  |  |  |                                         |              |         |  |                     |  |                |       |                |                                     |                  |                                                            |   |
| Office overheads                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 188 000        | (1)   |    |  |         |  |         |  |                |  |               |  |  |  |         |     |                                     |        |  |     |                                        |                |  |  |  |         |  |  |                                     |               |         |  |              |  |         |       |                  |  |         |     |                   |  |               |  |  |  |        |  |                |         |  |  |                                             |  |  |  |                                         |              |         |  |                     |  |                |       |                |                                     |                  |                                                            |   |
| Carriage outwards                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <u>17 500</u>  |       |    |  |         |  |         |  |                |  |               |  |  |  |         |     |                                     |        |  |     |                                        |                |  |  |  |         |  |  |                                     |               |         |  |              |  |         |       |                  |  |         |     |                   |  |               |  |  |  |        |  |                |         |  |  |                                             |  |  |  |                                         |              |         |  |                     |  |                |       |                |                                     |                  |                                                            |   |
|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 64 100         |       |    |  |         |  |         |  |                |  |               |  |  |  |         |     |                                     |        |  |     |                                        |                |  |  |  |         |  |  |                                     |               |         |  |              |  |         |       |                  |  |         |     |                   |  |               |  |  |  |        |  |                |         |  |  |                                             |  |  |  |                                         |              |         |  |                     |  |                |       |                |                                     |                  |                                                            |   |
| Factory profit                              | 120 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                |       |    |  |         |  |         |  |                |  |               |  |  |  |         |     |                                     |        |  |     |                                        |                |  |  |  |         |  |  |                                     |               |         |  |              |  |         |       |                  |  |         |     |                   |  |               |  |  |  |        |  |                |         |  |  |                                             |  |  |  |                                         |              |         |  |                     |  |                |       |                |                                     |                  |                                                            |   |
| Increase in provision for unrealised profit |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |       |    |  |         |  |         |  |                |  |               |  |  |  |         |     |                                     |        |  |     |                                        |                |  |  |  |         |  |  |                                     |               |         |  |              |  |         |       |                  |  |         |     |                   |  |               |  |  |  |        |  |                |         |  |  |                                             |  |  |  |                                         |              |         |  |                     |  |                |       |                |                                     |                  |                                                            |   |
| (54 000×20/120)(1)–(\$38 400×20/120)(1)     | <u>2 600</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 117 400        |       |    |  |         |  |         |  |                |  |               |  |  |  |         |     |                                     |        |  |     |                                        |                |  |  |  |         |  |  |                                     |               |         |  |              |  |         |       |                  |  |         |     |                   |  |               |  |  |  |        |  |                |         |  |  |                                             |  |  |  |                                         |              |         |  |                     |  |                |       |                |                                     |                  |                                                            |   |
| Profit for the year                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <u>181 500</u> | (1)OF |    |  |         |  |         |  |                |  |               |  |  |  |         |     |                                     |        |  |     |                                        |                |  |  |  |         |  |  |                                     |               |         |  |              |  |         |       |                  |  |         |     |                   |  |               |  |  |  |        |  |                |         |  |  |                                             |  |  |  |                                         |              |         |  |                     |  |                |       |                |                                     |                  |                                                            |   |
| Finished goods                              | 01 Aug 2015, \$32 000×120%=\$38 400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |       |    |  |         |  |         |  |                |  |               |  |  |  |         |     |                                     |        |  |     |                                        |                |  |  |  |         |  |  |                                     |               |         |  |              |  |         |       |                  |  |         |     |                   |  |               |  |  |  |        |  |                |         |  |  |                                             |  |  |  |                                         |              |         |  |                     |  |                |       |                |                                     |                  |                                                            |   |
| Office overheads                            | \$194 000–(\$16 000 – \$40 000 × $\frac{1}{4}$ )=\$188 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                |       |    |  |         |  |         |  |                |  |               |  |  |  |         |     |                                     |        |  |     |                                        |                |  |  |  |         |  |  |                                     |               |         |  |              |  |         |       |                  |  |         |     |                   |  |               |  |  |  |        |  |                |         |  |  |                                             |  |  |  |                                         |              |         |  |                     |  |                |       |                |                                     |                  |                                                            |   |

**PUBLISHED**

| Question             | Answer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Marks         |               |    |  |                |  |  |  |           |  |  |  |               |  |        |               |                  |  |        |                |        |  |  |                      |  |  |  |                   |                |               |       |  |  |               |       |   |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|----|--|----------------|--|--|--|-----------|--|--|--|---------------|--|--------|---------------|------------------|--|--------|----------------|--------|--|--|----------------------|--|--|--|-------------------|----------------|---------------|-------|--|--|---------------|-------|---|
| 1(c)                 | <table><tr><td></td><td>\$</td><td>\$</td><td></td></tr><tr><td>Current Assets</td><td></td><td></td><td></td></tr><tr><td>Inventory</td><td></td><td></td><td></td></tr><tr><td>Raw materials</td><td></td><td>16 400</td><td rowspan="2">}(1) for both</td></tr><tr><td>Work in progress</td><td></td><td>20 200</td></tr><tr><td>Finished goods</td><td>54 000</td><td></td><td></td></tr><tr><td>Less: Provisions for</td><td></td><td></td><td></td></tr><tr><td>Unrealised profit</td><td><u>(9 000)</u></td><td><u>45 000</u></td><td>(1)OF</td></tr><tr><td></td><td></td><td><u>81 600</u></td><td>(1)OF</td></tr></table> |               | \$            | \$ |  | Current Assets |  |  |  | Inventory |  |  |  | Raw materials |  | 16 400 | }(1) for both | Work in progress |  | 20 200 | Finished goods | 54 000 |  |  | Less: Provisions for |  |  |  | Unrealised profit | <u>(9 000)</u> | <u>45 000</u> | (1)OF |  |  | <u>81 600</u> | (1)OF | 3 |
|                      | \$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | \$            |               |    |  |                |  |  |  |           |  |  |  |               |  |        |               |                  |  |        |                |        |  |  |                      |  |  |  |                   |                |               |       |  |  |               |       |   |
| Current Assets       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |               |    |  |                |  |  |  |           |  |  |  |               |  |        |               |                  |  |        |                |        |  |  |                      |  |  |  |                   |                |               |       |  |  |               |       |   |
| Inventory            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |               |    |  |                |  |  |  |           |  |  |  |               |  |        |               |                  |  |        |                |        |  |  |                      |  |  |  |                   |                |               |       |  |  |               |       |   |
| Raw materials        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 16 400        | }(1) for both |    |  |                |  |  |  |           |  |  |  |               |  |        |               |                  |  |        |                |        |  |  |                      |  |  |  |                   |                |               |       |  |  |               |       |   |
| Work in progress     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 20 200        |               |    |  |                |  |  |  |           |  |  |  |               |  |        |               |                  |  |        |                |        |  |  |                      |  |  |  |                   |                |               |       |  |  |               |       |   |
| Finished goods       | 54 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |               |    |  |                |  |  |  |           |  |  |  |               |  |        |               |                  |  |        |                |        |  |  |                      |  |  |  |                   |                |               |       |  |  |               |       |   |
| Less: Provisions for |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |               |    |  |                |  |  |  |           |  |  |  |               |  |        |               |                  |  |        |                |        |  |  |                      |  |  |  |                   |                |               |       |  |  |               |       |   |
| Unrealised profit    | <u>(9 000)</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <u>45 000</u> | (1)OF         |    |  |                |  |  |  |           |  |  |  |               |  |        |               |                  |  |        |                |        |  |  |                      |  |  |  |                   |                |               |       |  |  |               |       |   |
|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <u>81 600</u> | (1)OF         |    |  |                |  |  |  |           |  |  |  |               |  |        |               |                  |  |        |                |        |  |  |                      |  |  |  |                   |                |               |       |  |  |               |       |   |
| 1(d)                 | <p>To remove unrealised profit from income statement <b>(1)</b> otherwise profits are overstated <b>(1)</b> by amount of unrealised profit.</p> <p>In accordance with the prudence concept <b>(1)</b>, to ensure inventories are not overvalued <b>(1)</b> and are valued at cost and not cost plus a mark-up <b>(1)</b>.</p> <p><b>Max 4</b></p>                                                                                                                                                                                                                                                                                   | 4             |               |    |  |                |  |  |  |           |  |  |  |               |  |        |               |                  |  |        |                |        |  |  |                      |  |  |  |                   |                |               |       |  |  |               |       |   |
| 1(e)                 | <p>Responses could include:</p> <p>Advantages</p> <p>Family help</p> <p>    Potential for new market</p> <p>    Less risk of obsolete stock</p> <p>Disadvantages</p> <p>    Less inventory to sell/may not be able to respond to increase in demand</p> <p>    More competition</p> <p>    May undercut him</p> <p>    If doesn't charge sister he will lose profit</p> <p>    If sister's business fails he might not get paid</p> <p><b>1 mark for each advantage. Max 2</b></p> <p><b>1 mark for each disadvantage. Max 2</b></p>                                                                                                | 4             |               |    |  |                |  |  |  |           |  |  |  |               |  |        |               |                  |  |        |                |        |  |  |                      |  |  |  |                   |                |               |       |  |  |               |       |   |
|                      | Total:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 25            |               |    |  |                |  |  |  |           |  |  |  |               |  |        |               |                  |  |        |                |        |  |  |                      |  |  |  |                   |                |               |       |  |  |               |       |   |

**PUBLISHED**

| Question                        | Answer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Marks        |       |  |                         |      |            |               |     |            |                               |             |  |  |             |  |           |       |  |                               |     |            |                              |     |              |           |  |  |                                 |              |              |                                 |      |              |   |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------|--|-------------------------|------|------------|---------------|-----|------------|-------------------------------|-------------|--|--|-------------|--|-----------|-------|--|-------------------------------|-----|------------|------------------------------|-----|--------------|-----------|--|--|---------------------------------|--------------|--------------|---------------------------------|------|--------------|---|
| 2(a)                            | <p>(i) Return on capital employed <math>\frac{\\$400\,000^*}{\\$6\,300\,000} = 6.35\%</math> <b>(1)OF</b></p> <p>*Profit from ops for 2016 <math>\\$160\,000 \div (1-60\%) = \\$400\,000</math></p> <p>(ii) Earnings per share <math>\frac{\\$400\,000}{1\,000\,000} = \\$0.40</math> <b>(1)OF</b></p> <p>(iii) Price earnings ratio <math>\frac{\\$6.4}{\\$0.4} = 16.00</math> <b>(1)OF</b></p> <p>(iv) Dividend cover <math>\frac{\\$400\,000}{\\$240\,000} = 1.67 \text{ times}</math> <b>(1)OF</b></p> <p>(v) Dividend yield <math>\frac{\\$240\,000}{1\,000\,000} = \\$0.24</math> <b>(1)OF</b></p> <p><math>\frac{\\$0.24}{\\$6.4} = 3.75\%</math> <b>(1)OF</b></p>                                                                                                                                                                                             | 8            |       |  |                         |      |            |               |     |            |                               |             |  |  |             |  |           |       |  |                               |     |            |                              |     |              |           |  |  |                                 |              |              |                                 |      |              |   |
| 2(b)                            | <p>Share capital and reserves at 31 December 2017</p> <table> <tr><td></td><td>\$000</td><td></td></tr> <tr><td>Ordinary shares capital</td><td>6000</td><td><b>(1)</b></td></tr> <tr><td>Share premium</td><td>700</td><td><b>(1)</b></td></tr> <tr><td>Retained earnings <b>(W1)</b></td><td><u>1034</u></td><td></td></tr> <tr><td></td><td><u>7734</u></td><td></td></tr> </table><br><table> <tr><td><b>W1</b></td><td>\$000</td><td></td></tr> <tr><td>Retained earnings at 1.1.2017</td><td>800</td><td><b>(1)</b></td></tr> <tr><td>Profit for the year for 2017</td><td>585</td><td><b>(1)OF</b></td></tr> <tr><td>(400+185)</td><td></td><td></td></tr> <tr><td>Dividend paid <math>585 \times 60\%</math></td><td><u>(351)</u></td><td><b>(1)OF</b></td></tr> <tr><td>Retained earnings at 31.12.2017</td><td>1034</td><td><b>(1)OF</b></td></tr> </table> |              | \$000 |  | Ordinary shares capital | 6000 | <b>(1)</b> | Share premium | 700 | <b>(1)</b> | Retained earnings <b>(W1)</b> | <u>1034</u> |  |  | <u>7734</u> |  | <b>W1</b> | \$000 |  | Retained earnings at 1.1.2017 | 800 | <b>(1)</b> | Profit for the year for 2017 | 585 | <b>(1)OF</b> | (400+185) |  |  | Dividend paid $585 \times 60\%$ | <u>(351)</u> | <b>(1)OF</b> | Retained earnings at 31.12.2017 | 1034 | <b>(1)OF</b> | 6 |
|                                 | \$000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              |       |  |                         |      |            |               |     |            |                               |             |  |  |             |  |           |       |  |                               |     |            |                              |     |              |           |  |  |                                 |              |              |                                 |      |              |   |
| Ordinary shares capital         | 6000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>(1)</b>   |       |  |                         |      |            |               |     |            |                               |             |  |  |             |  |           |       |  |                               |     |            |                              |     |              |           |  |  |                                 |              |              |                                 |      |              |   |
| Share premium                   | 700                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>(1)</b>   |       |  |                         |      |            |               |     |            |                               |             |  |  |             |  |           |       |  |                               |     |            |                              |     |              |           |  |  |                                 |              |              |                                 |      |              |   |
| Retained earnings <b>(W1)</b>   | <u>1034</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |       |  |                         |      |            |               |     |            |                               |             |  |  |             |  |           |       |  |                               |     |            |                              |     |              |           |  |  |                                 |              |              |                                 |      |              |   |
|                                 | <u>7734</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |       |  |                         |      |            |               |     |            |                               |             |  |  |             |  |           |       |  |                               |     |            |                              |     |              |           |  |  |                                 |              |              |                                 |      |              |   |
| <b>W1</b>                       | \$000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              |       |  |                         |      |            |               |     |            |                               |             |  |  |             |  |           |       |  |                               |     |            |                              |     |              |           |  |  |                                 |              |              |                                 |      |              |   |
| Retained earnings at 1.1.2017   | 800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>(1)</b>   |       |  |                         |      |            |               |     |            |                               |             |  |  |             |  |           |       |  |                               |     |            |                              |     |              |           |  |  |                                 |              |              |                                 |      |              |   |
| Profit for the year for 2017    | 585                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>(1)OF</b> |       |  |                         |      |            |               |     |            |                               |             |  |  |             |  |           |       |  |                               |     |            |                              |     |              |           |  |  |                                 |              |              |                                 |      |              |   |
| (400+185)                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |       |  |                         |      |            |               |     |            |                               |             |  |  |             |  |           |       |  |                               |     |            |                              |     |              |           |  |  |                                 |              |              |                                 |      |              |   |
| Dividend paid $585 \times 60\%$ | <u>(351)</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>(1)OF</b> |       |  |                         |      |            |               |     |            |                               |             |  |  |             |  |           |       |  |                               |     |            |                              |     |              |           |  |  |                                 |              |              |                                 |      |              |   |
| Retained earnings at 31.12.2017 | 1034                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>(1)OF</b> |       |  |                         |      |            |               |     |            |                               |             |  |  |             |  |           |       |  |                               |     |            |                              |     |              |           |  |  |                                 |              |              |                                 |      |              |   |

**PUBLISHED**

| Question | Answer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Marks     |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| 2(c)     | <p>(i) Return on capital employed <math>\frac{\\$585\,000}{\\$7\,734\,000} \times 100 = 7.56\%</math> (1)OF (1)OF</p> <p>(ii) Earnings per share <math>\frac{\\$585\,000}{1\,200\,000} = \\$0.49</math> (1)OF (1)</p>                                                                                                                                                                                                                                                                    | 6         |
| 2(d)     | <p>Responses could include:</p> <ul style="list-style-type: none"> <li>• Better/higher/increased return on capital employed</li> <li>• Better/higher/increased earnings per share</li> <li>• Share price may increase due to improved profitability</li> <li>• Share price may decrease with more shares in circulation</li> <li>• The project return is higher than the 2016 return on capital employed</li> </ul> <p><b>(1 mark) for the recommendation + (1 mark × 4 reasons)</b></p> | 5         |
|          | <b>Total:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>25</b> |

| Question | Answer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Marks |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 3(a)     | <p>Responses may include:</p> <ul style="list-style-type: none"> <li>• Financial statements need to be understandable by different interested stakeholders;</li> <li>• Financial statements need to be relevant for decision making</li> <li>• Financial statements need to be reliable</li> <li>• Financial statements need to be comparable</li> <li>• Accounting policies adopted are appropriate</li> <li>• Accounting concepts/assumptions are adhered to, i.e. Prudence, accrual, going concern and consistency</li> <li>• To ensure fair representation and to show true and fair view</li> <li>• Form the basis of auditor's opinion</li> </ul> <p>Accept any reasonable alternative<br/><b>(1 mark) × 4 valid points</b></p> | 4     |

**PUBLISHED**

| Question                         | Answer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Marks                                                        |    |  |                    |  |  |                               |         |                                                              |  |                |  |                |  |  |             |         |  |                   |         |                               |                           |         |  |  |                |  |                  |                    |  |                            |  |  |        |  |  |                             |         |  |                   |         |                                               |              |                |                    |                         |  |  |                |         |  |                            |        |            |          |        |  |  |                |  |                                  |                    |  |          |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|----|--|--------------------|--|--|-------------------------------|---------|--------------------------------------------------------------|--|----------------|--|----------------|--|--|-------------|---------|--|-------------------|---------|-------------------------------|---------------------------|---------|--|--|----------------|--|------------------|--------------------|--|----------------------------|--|--|--------|--|--|-----------------------------|---------|--|-------------------|---------|-----------------------------------------------|--------------|----------------|--------------------|-------------------------|--|--|----------------|---------|--|----------------------------|--------|------------|----------|--------|--|--|----------------|--|----------------------------------|--------------------|--|----------|
| 3(b)                             | The directors manage the company on behalf of the owners (shareholders) <b>(1)</b> . They are accountable and report to the owners (shareholders) <b>(1)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>2</b>                                                     |    |  |                    |  |  |                               |         |                                                              |  |                |  |                |  |  |             |         |  |                   |         |                               |                           |         |  |  |                |  |                  |                    |  |                            |  |  |        |  |  |                             |         |  |                   |         |                                               |              |                |                    |                         |  |  |                |         |  |                            |        |            |          |        |  |  |                |  |                                  |                    |  |          |
| 3(c)                             | <p style="text-align: center;">Z Limited<br/>Statement of financial position at 31 December 2016</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th><th style="text-align: right;">\$</th><th></th></tr> </thead> <tbody> <tr> <td>Non-current assets</td><td></td><td></td></tr> <tr> <td>Property, plant and equipment</td><td style="text-align: right;">491 500</td><td style="text-align: right;"><b>(1)OF</b> (\$478 000+21 000 <b>(1)</b>–7500 <b>(1)</b> )</td></tr> <tr> <td></td><td style="text-align: right;"><u>491 500</u></td><td></td></tr> <tr> <td>Current assets</td><td></td><td></td></tr> <tr> <td>Inventories</td><td style="text-align: right;">124 000</td><td></td></tr> <tr> <td>Trade receivables</td><td style="text-align: right;">187 000</td><td style="text-align: right;"><b>(1)</b> (\$217 000–30 000)</td></tr> <tr> <td>Cash and cash equivalents</td><td style="text-align: right;">132 000</td><td></td></tr> <tr> <td></td><td style="text-align: right;"><u>443 000</u></td><td></td></tr> <tr> <td><br/>Total assets</td><td style="text-align: right;"><br/><u>934 500</u></td><td></td></tr> <tr> <td><br/>Equity and liabilities</td><td></td><td></td></tr> <tr> <td>Equity</td><td></td><td></td></tr> <tr> <td>Ordinary shares of \$1 each</td><td style="text-align: right;">500 000</td><td></td></tr> <tr> <td>Retained earnings</td><td style="text-align: right;">164 500</td><td style="text-align: right;">(\$210 000–29 000 <b>(1)</b>–9000 <b>(1)</b></td></tr> <tr> <td>Total equity</td><td style="text-align: right;"><u>664 500</u></td><td style="text-align: right;">–7500 <b>(1)</b> )</td></tr> <tr> <td><br/>Current liabilities</td><td></td><td></td></tr> <tr> <td>Trade payables</td><td style="text-align: right;">188 000</td><td></td></tr> <tr> <td>Provision for compensation</td><td style="text-align: right;">29 000</td><td style="text-align: right;"><b>(1)</b></td></tr> <tr> <td>Taxation</td><td style="text-align: right;">53 000</td><td></td></tr> <tr> <td></td><td style="text-align: right;"><u>270 000</u></td><td></td></tr> <tr> <td><br/>Total equity and liabilities</td><td style="text-align: right;"><br/><u>934 500</u></td><td></td></tr> </tbody> </table> |                                                              | \$ |  | Non-current assets |  |  | Property, plant and equipment | 491 500 | <b>(1)OF</b> (\$478 000+21 000 <b>(1)</b> –7500 <b>(1)</b> ) |  | <u>491 500</u> |  | Current assets |  |  | Inventories | 124 000 |  | Trade receivables | 187 000 | <b>(1)</b> (\$217 000–30 000) | Cash and cash equivalents | 132 000 |  |  | <u>443 000</u> |  | <br>Total assets | <br><u>934 500</u> |  | <br>Equity and liabilities |  |  | Equity |  |  | Ordinary shares of \$1 each | 500 000 |  | Retained earnings | 164 500 | (\$210 000–29 000 <b>(1)</b> –9000 <b>(1)</b> | Total equity | <u>664 500</u> | –7500 <b>(1)</b> ) | <br>Current liabilities |  |  | Trade payables | 188 000 |  | Provision for compensation | 29 000 | <b>(1)</b> | Taxation | 53 000 |  |  | <u>270 000</u> |  | <br>Total equity and liabilities | <br><u>934 500</u> |  | <b>8</b> |
|                                  | \$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                              |    |  |                    |  |  |                               |         |                                                              |  |                |  |                |  |  |             |         |  |                   |         |                               |                           |         |  |  |                |  |                  |                    |  |                            |  |  |        |  |  |                             |         |  |                   |         |                                               |              |                |                    |                         |  |  |                |         |  |                            |        |            |          |        |  |  |                |  |                                  |                    |  |          |
| Non-current assets               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                              |    |  |                    |  |  |                               |         |                                                              |  |                |  |                |  |  |             |         |  |                   |         |                               |                           |         |  |  |                |  |                  |                    |  |                            |  |  |        |  |  |                             |         |  |                   |         |                                               |              |                |                    |                         |  |  |                |         |  |                            |        |            |          |        |  |  |                |  |                                  |                    |  |          |
| Property, plant and equipment    | 491 500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>(1)OF</b> (\$478 000+21 000 <b>(1)</b> –7500 <b>(1)</b> ) |    |  |                    |  |  |                               |         |                                                              |  |                |  |                |  |  |             |         |  |                   |         |                               |                           |         |  |  |                |  |                  |                    |  |                            |  |  |        |  |  |                             |         |  |                   |         |                                               |              |                |                    |                         |  |  |                |         |  |                            |        |            |          |        |  |  |                |  |                                  |                    |  |          |
|                                  | <u>491 500</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                              |    |  |                    |  |  |                               |         |                                                              |  |                |  |                |  |  |             |         |  |                   |         |                               |                           |         |  |  |                |  |                  |                    |  |                            |  |  |        |  |  |                             |         |  |                   |         |                                               |              |                |                    |                         |  |  |                |         |  |                            |        |            |          |        |  |  |                |  |                                  |                    |  |          |
| Current assets                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                              |    |  |                    |  |  |                               |         |                                                              |  |                |  |                |  |  |             |         |  |                   |         |                               |                           |         |  |  |                |  |                  |                    |  |                            |  |  |        |  |  |                             |         |  |                   |         |                                               |              |                |                    |                         |  |  |                |         |  |                            |        |            |          |        |  |  |                |  |                                  |                    |  |          |
| Inventories                      | 124 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                              |    |  |                    |  |  |                               |         |                                                              |  |                |  |                |  |  |             |         |  |                   |         |                               |                           |         |  |  |                |  |                  |                    |  |                            |  |  |        |  |  |                             |         |  |                   |         |                                               |              |                |                    |                         |  |  |                |         |  |                            |        |            |          |        |  |  |                |  |                                  |                    |  |          |
| Trade receivables                | 187 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>(1)</b> (\$217 000–30 000)                                |    |  |                    |  |  |                               |         |                                                              |  |                |  |                |  |  |             |         |  |                   |         |                               |                           |         |  |  |                |  |                  |                    |  |                            |  |  |        |  |  |                             |         |  |                   |         |                                               |              |                |                    |                         |  |  |                |         |  |                            |        |            |          |        |  |  |                |  |                                  |                    |  |          |
| Cash and cash equivalents        | 132 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                              |    |  |                    |  |  |                               |         |                                                              |  |                |  |                |  |  |             |         |  |                   |         |                               |                           |         |  |  |                |  |                  |                    |  |                            |  |  |        |  |  |                             |         |  |                   |         |                                               |              |                |                    |                         |  |  |                |         |  |                            |        |            |          |        |  |  |                |  |                                  |                    |  |          |
|                                  | <u>443 000</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                              |    |  |                    |  |  |                               |         |                                                              |  |                |  |                |  |  |             |         |  |                   |         |                               |                           |         |  |  |                |  |                  |                    |  |                            |  |  |        |  |  |                             |         |  |                   |         |                                               |              |                |                    |                         |  |  |                |         |  |                            |        |            |          |        |  |  |                |  |                                  |                    |  |          |
| <br>Total assets                 | <br><u>934 500</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                              |    |  |                    |  |  |                               |         |                                                              |  |                |  |                |  |  |             |         |  |                   |         |                               |                           |         |  |  |                |  |                  |                    |  |                            |  |  |        |  |  |                             |         |  |                   |         |                                               |              |                |                    |                         |  |  |                |         |  |                            |        |            |          |        |  |  |                |  |                                  |                    |  |          |
| <br>Equity and liabilities       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                              |    |  |                    |  |  |                               |         |                                                              |  |                |  |                |  |  |             |         |  |                   |         |                               |                           |         |  |  |                |  |                  |                    |  |                            |  |  |        |  |  |                             |         |  |                   |         |                                               |              |                |                    |                         |  |  |                |         |  |                            |        |            |          |        |  |  |                |  |                                  |                    |  |          |
| Equity                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                              |    |  |                    |  |  |                               |         |                                                              |  |                |  |                |  |  |             |         |  |                   |         |                               |                           |         |  |  |                |  |                  |                    |  |                            |  |  |        |  |  |                             |         |  |                   |         |                                               |              |                |                    |                         |  |  |                |         |  |                            |        |            |          |        |  |  |                |  |                                  |                    |  |          |
| Ordinary shares of \$1 each      | 500 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                              |    |  |                    |  |  |                               |         |                                                              |  |                |  |                |  |  |             |         |  |                   |         |                               |                           |         |  |  |                |  |                  |                    |  |                            |  |  |        |  |  |                             |         |  |                   |         |                                               |              |                |                    |                         |  |  |                |         |  |                            |        |            |          |        |  |  |                |  |                                  |                    |  |          |
| Retained earnings                | 164 500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | (\$210 000–29 000 <b>(1)</b> –9000 <b>(1)</b>                |    |  |                    |  |  |                               |         |                                                              |  |                |  |                |  |  |             |         |  |                   |         |                               |                           |         |  |  |                |  |                  |                    |  |                            |  |  |        |  |  |                             |         |  |                   |         |                                               |              |                |                    |                         |  |  |                |         |  |                            |        |            |          |        |  |  |                |  |                                  |                    |  |          |
| Total equity                     | <u>664 500</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | –7500 <b>(1)</b> )                                           |    |  |                    |  |  |                               |         |                                                              |  |                |  |                |  |  |             |         |  |                   |         |                               |                           |         |  |  |                |  |                  |                    |  |                            |  |  |        |  |  |                             |         |  |                   |         |                                               |              |                |                    |                         |  |  |                |         |  |                            |        |            |          |        |  |  |                |  |                                  |                    |  |          |
| <br>Current liabilities          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                              |    |  |                    |  |  |                               |         |                                                              |  |                |  |                |  |  |             |         |  |                   |         |                               |                           |         |  |  |                |  |                  |                    |  |                            |  |  |        |  |  |                             |         |  |                   |         |                                               |              |                |                    |                         |  |  |                |         |  |                            |        |            |          |        |  |  |                |  |                                  |                    |  |          |
| Trade payables                   | 188 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                              |    |  |                    |  |  |                               |         |                                                              |  |                |  |                |  |  |             |         |  |                   |         |                               |                           |         |  |  |                |  |                  |                    |  |                            |  |  |        |  |  |                             |         |  |                   |         |                                               |              |                |                    |                         |  |  |                |         |  |                            |        |            |          |        |  |  |                |  |                                  |                    |  |          |
| Provision for compensation       | 29 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>(1)</b>                                                   |    |  |                    |  |  |                               |         |                                                              |  |                |  |                |  |  |             |         |  |                   |         |                               |                           |         |  |  |                |  |                  |                    |  |                            |  |  |        |  |  |                             |         |  |                   |         |                                               |              |                |                    |                         |  |  |                |         |  |                            |        |            |          |        |  |  |                |  |                                  |                    |  |          |
| Taxation                         | 53 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                              |    |  |                    |  |  |                               |         |                                                              |  |                |  |                |  |  |             |         |  |                   |         |                               |                           |         |  |  |                |  |                  |                    |  |                            |  |  |        |  |  |                             |         |  |                   |         |                                               |              |                |                    |                         |  |  |                |         |  |                            |        |            |          |        |  |  |                |  |                                  |                    |  |          |
|                                  | <u>270 000</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                              |    |  |                    |  |  |                               |         |                                                              |  |                |  |                |  |  |             |         |  |                   |         |                               |                           |         |  |  |                |  |                  |                    |  |                            |  |  |        |  |  |                             |         |  |                   |         |                                               |              |                |                    |                         |  |  |                |         |  |                            |        |            |          |        |  |  |                |  |                                  |                    |  |          |
| <br>Total equity and liabilities | <br><u>934 500</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                              |    |  |                    |  |  |                               |         |                                                              |  |                |  |                |  |  |             |         |  |                   |         |                               |                           |         |  |  |                |  |                  |                    |  |                            |  |  |        |  |  |                             |         |  |                   |         |                                               |              |                |                    |                         |  |  |                |         |  |                            |        |            |          |        |  |  |                |  |                                  |                    |  |          |

**PUBLISHED**

| Question | Answer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Marks     |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| 3(d)     | <p>Treatment of compensation (reference IAS 37) <b>(1)</b><br/>           There is a 90% probability<b>(1)</b> of losing the case. Therefore a provision for compensation (\$29 000) should be shown as a current liability/other payable <b>(1)</b></p> <p>Treatment of trade receivables<br/>           Z Limited only recovered \$21 000 in the form of non-current assets. <b>(1)</b> The remaining \$9000 which is irrecoverable debt should be written off as bad debt (or a specific provision) against retained earnings <b>(1)</b>. The full \$30 000 has been deducted from trade receivables <b>(1)</b>.</p> <p>Treatment of machinery (reference IAS 36) <b>(1)</b><br/>           According to IAS 36, an asset is impaired when its carrying amount (\$40 000) is more than its recoverable amount (\$32 500). <b>(1)</b>. Recoverable amount is the higher of its fair value (\$32 500) and value in use (\$19 500)<b>(1)</b>. The impaired loss of the piece of machinery is \$7500 (\$40 000–\$32 500) which has to been written off against retained earnings. <b>(1)</b></p> <p><b>Max 2 marks for each adjustment</b></p> | <b>6</b>  |
| 3(e)     | <p>Advantages</p> <ul style="list-style-type: none"> <li>• increase the credibility/reliability of accounts</li> <li>• maybe helpful if Jack wants to apply for a bank loan/investment from 3<sup>rd</sup> parties</li> <li>• help identify weaknesses in the internal procedures</li> </ul> <p>Disadvantages</p> <ul style="list-style-type: none"> <li>• high cost of audit fee</li> <li>• no segregation of ownership and management in Jack's business</li> <li>• no need for audit as sole trader</li> </ul> <p><b>Max 3 marks</b> for the advantages and <b>Max 2 marks</b> for the disadvantages</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>5</b>  |
|          | <b>Total:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>25</b> |

**PUBLISHED**

| Question                            | Answer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Marks                        |  |  |                                 |        |  |                                    |        |  |                                     |               |  |  |                |            |     |  |                       |                                     |  |  |  |    |  |                    |         |  |                     |         |  |                |        |  |           |        |  |                   |               |  |  |         |  |               |                 |  |  |  |                           |          |  |                              |          |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--|--|---------------------------------|--------|--|------------------------------------|--------|--|-------------------------------------|---------------|--|--|----------------|------------|-----|--|-----------------------|-------------------------------------|--|--|--|----|--|--------------------|---------|--|---------------------|---------|--|----------------|--------|--|-----------|--------|--|-------------------|---------------|--|--|---------|--|---------------|-----------------|--|--|--|---------------------------|----------|--|------------------------------|----------|
| 4(a)                                | Goodwill is the amount paid for the acquisition of a business in excess of the acquired business' separable net assets at fair value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>1</b>                     |  |  |                                 |        |  |                                    |        |  |                                     |               |  |  |                |            |     |  |                       |                                     |  |  |  |    |  |                    |         |  |                     |         |  |                |        |  |           |        |  |                   |               |  |  |         |  |               |                 |  |  |  |                           |          |  |                              |          |
| 4(b)                                | <p>Purchase consideration</p> <table> <tr> <td>Profit before appropriation:</td><td></td><td></td></tr> <tr> <td>Residual profit (36 000+24 000)</td><td>60 000</td><td></td></tr> <tr> <td>Partners' salaries (30 000+45 000)</td><td>75 000</td><td></td></tr> <tr> <td>Interest on capital (15 000+10 000)</td><td><u>25 000</u></td><td></td></tr> <tr> <td></td><td><u>160 000</u></td><td><b>(1)</b></td></tr> <tr> <td>× 5</td><td></td><td>800 000 <b>(1) OF</b></td></tr> <tr> <td>Fair value of net assets taken over</td><td></td><td></td></tr> <tr> <td></td><td>\$</td><td></td></tr> <tr> <td>Land and buildings</td><td>450 000</td><td></td></tr> <tr> <td>Plant and machinery</td><td>120 000</td><td></td></tr> <tr> <td>Motor vehicles</td><td>60 000</td><td></td></tr> <tr> <td>Inventory</td><td>49 000</td><td></td></tr> <tr> <td>Trade receivables</td><td><u>52 000</u></td><td></td></tr> <tr> <td></td><td>731 000</td><td></td></tr> <tr> <td>Trade payable</td><td><u>(39 000)</u></td><td></td></tr> <tr> <td></td><td></td><td><u>692 000</u> <b>(1)</b></td></tr> <tr> <td>Goodwill</td><td></td><td><u>108 000</u> <b>(1) OF</b></td></tr> </table> | Profit before appropriation: |  |  | Residual profit (36 000+24 000) | 60 000 |  | Partners' salaries (30 000+45 000) | 75 000 |  | Interest on capital (15 000+10 000) | <u>25 000</u> |  |  | <u>160 000</u> | <b>(1)</b> | × 5 |  | 800 000 <b>(1) OF</b> | Fair value of net assets taken over |  |  |  | \$ |  | Land and buildings | 450 000 |  | Plant and machinery | 120 000 |  | Motor vehicles | 60 000 |  | Inventory | 49 000 |  | Trade receivables | <u>52 000</u> |  |  | 731 000 |  | Trade payable | <u>(39 000)</u> |  |  |  | <u>692 000</u> <b>(1)</b> | Goodwill |  | <u>108 000</u> <b>(1) OF</b> | <b>4</b> |
| Profit before appropriation:        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                              |  |  |                                 |        |  |                                    |        |  |                                     |               |  |  |                |            |     |  |                       |                                     |  |  |  |    |  |                    |         |  |                     |         |  |                |        |  |           |        |  |                   |               |  |  |         |  |               |                 |  |  |  |                           |          |  |                              |          |
| Residual profit (36 000+24 000)     | 60 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                              |  |  |                                 |        |  |                                    |        |  |                                     |               |  |  |                |            |     |  |                       |                                     |  |  |  |    |  |                    |         |  |                     |         |  |                |        |  |           |        |  |                   |               |  |  |         |  |               |                 |  |  |  |                           |          |  |                              |          |
| Partners' salaries (30 000+45 000)  | 75 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                              |  |  |                                 |        |  |                                    |        |  |                                     |               |  |  |                |            |     |  |                       |                                     |  |  |  |    |  |                    |         |  |                     |         |  |                |        |  |           |        |  |                   |               |  |  |         |  |               |                 |  |  |  |                           |          |  |                              |          |
| Interest on capital (15 000+10 000) | <u>25 000</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                              |  |  |                                 |        |  |                                    |        |  |                                     |               |  |  |                |            |     |  |                       |                                     |  |  |  |    |  |                    |         |  |                     |         |  |                |        |  |           |        |  |                   |               |  |  |         |  |               |                 |  |  |  |                           |          |  |                              |          |
|                                     | <u>160 000</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>(1)</b>                   |  |  |                                 |        |  |                                    |        |  |                                     |               |  |  |                |            |     |  |                       |                                     |  |  |  |    |  |                    |         |  |                     |         |  |                |        |  |           |        |  |                   |               |  |  |         |  |               |                 |  |  |  |                           |          |  |                              |          |
| × 5                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 800 000 <b>(1) OF</b>        |  |  |                                 |        |  |                                    |        |  |                                     |               |  |  |                |            |     |  |                       |                                     |  |  |  |    |  |                    |         |  |                     |         |  |                |        |  |           |        |  |                   |               |  |  |         |  |               |                 |  |  |  |                           |          |  |                              |          |
| Fair value of net assets taken over |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                              |  |  |                                 |        |  |                                    |        |  |                                     |               |  |  |                |            |     |  |                       |                                     |  |  |  |    |  |                    |         |  |                     |         |  |                |        |  |           |        |  |                   |               |  |  |         |  |               |                 |  |  |  |                           |          |  |                              |          |
|                                     | \$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                              |  |  |                                 |        |  |                                    |        |  |                                     |               |  |  |                |            |     |  |                       |                                     |  |  |  |    |  |                    |         |  |                     |         |  |                |        |  |           |        |  |                   |               |  |  |         |  |               |                 |  |  |  |                           |          |  |                              |          |
| Land and buildings                  | 450 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |  |  |                                 |        |  |                                    |        |  |                                     |               |  |  |                |            |     |  |                       |                                     |  |  |  |    |  |                    |         |  |                     |         |  |                |        |  |           |        |  |                   |               |  |  |         |  |               |                 |  |  |  |                           |          |  |                              |          |
| Plant and machinery                 | 120 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |  |  |                                 |        |  |                                    |        |  |                                     |               |  |  |                |            |     |  |                       |                                     |  |  |  |    |  |                    |         |  |                     |         |  |                |        |  |           |        |  |                   |               |  |  |         |  |               |                 |  |  |  |                           |          |  |                              |          |
| Motor vehicles                      | 60 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                              |  |  |                                 |        |  |                                    |        |  |                                     |               |  |  |                |            |     |  |                       |                                     |  |  |  |    |  |                    |         |  |                     |         |  |                |        |  |           |        |  |                   |               |  |  |         |  |               |                 |  |  |  |                           |          |  |                              |          |
| Inventory                           | 49 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                              |  |  |                                 |        |  |                                    |        |  |                                     |               |  |  |                |            |     |  |                       |                                     |  |  |  |    |  |                    |         |  |                     |         |  |                |        |  |           |        |  |                   |               |  |  |         |  |               |                 |  |  |  |                           |          |  |                              |          |
| Trade receivables                   | <u>52 000</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                              |  |  |                                 |        |  |                                    |        |  |                                     |               |  |  |                |            |     |  |                       |                                     |  |  |  |    |  |                    |         |  |                     |         |  |                |        |  |           |        |  |                   |               |  |  |         |  |               |                 |  |  |  |                           |          |  |                              |          |
|                                     | 731 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |  |  |                                 |        |  |                                    |        |  |                                     |               |  |  |                |            |     |  |                       |                                     |  |  |  |    |  |                    |         |  |                     |         |  |                |        |  |           |        |  |                   |               |  |  |         |  |               |                 |  |  |  |                           |          |  |                              |          |
| Trade payable                       | <u>(39 000)</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                              |  |  |                                 |        |  |                                    |        |  |                                     |               |  |  |                |            |     |  |                       |                                     |  |  |  |    |  |                    |         |  |                     |         |  |                |        |  |           |        |  |                   |               |  |  |         |  |               |                 |  |  |  |                           |          |  |                              |          |
|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <u>692 000</u> <b>(1)</b>    |  |  |                                 |        |  |                                    |        |  |                                     |               |  |  |                |            |     |  |                       |                                     |  |  |  |    |  |                    |         |  |                     |         |  |                |        |  |           |        |  |                   |               |  |  |         |  |               |                 |  |  |  |                           |          |  |                              |          |
| Goodwill                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <u>108 000</u> <b>(1) OF</b> |  |  |                                 |        |  |                                    |        |  |                                     |               |  |  |                |            |     |  |                       |                                     |  |  |  |    |  |                    |         |  |                     |         |  |                |        |  |           |        |  |                   |               |  |  |         |  |               |                 |  |  |  |                           |          |  |                              |          |

**PUBLISHED**

| Question | Answer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  | Marks |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|-------|
| 4(c)     | <div> <div> <div>\$</div> <div>\$</div> </div> <div> <div>Purchase consideration</div> <div>800 000</div> <div>(1) OF</div> </div> <div> <div>Value of motor vehicle taken over</div> <div>28 000</div> <div>(1)</div> </div> <div> <div></div> <div>828 000</div> <div></div> </div> <div> <div>Book value of net assets</div> <div></div> <div></div> </div> <div> <div>Land and buildings</div> <div>320 000</div> <div></div> </div> <div> <div>Plant and machinery</div> <div>135 000</div> <div></div> </div> <div> <div>Motor vehicles</div> <div>110 000</div> <div></div> </div> <div> <div>Inventory</div> <div>38 000</div> <div></div> </div> <div> <div>Trade receivables</div> <div>54 000</div> <div></div> </div> <div> <div>Trade payables</div> <div>(39 000)</div> <div></div> </div> <div> <div></div> <div>618 000</div> <div>(1)</div> </div> <div> <div>Profit on realisation</div> <div>210 000</div> <div>(1) OF</div> </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  | 4     |
| 4(d)     | <div> <div> <div>Alex</div> <div>Brown</div> </div> <div> <div>\$</div> <div>\$</div> </div> <div> <div>Motor vehicle taken over</div> <div>28 000</div> <div>(1)</div> </div> <div> <div>C Ltd -Debs – 8% debentures</div> <div>187 500</div> <div>(1)</div> </div> <div> <div>C Ltd - Shares – ordinary shares</div> <div>216 000</div> <div>(1)OF</div> </div> <div> <div>Cash/bank</div> <div>70 500</div> <div>(1)OF</div> </div> <div> <div></div> <div>502 000</div> <div></div> </div> <div> <div></div> <div></div> <div></div> </div> <div> <div></div> <div>125 000</div> <div>(1)</div> </div> <div> <div></div> <div>144 000</div> <div>(1)OF</div> </div> <div> <div></div> <div>76 000</div> <div>(1)OF</div> </div> <div> <div></div> <div>345 000</div> <div></div> </div> <div> <div>Balance b/d</div> <div>300 000</div> <div>)</div> </div> <div> <div>Current A/cs</div> <div>76 000</div> <div>)</div> </div> <div> <div>Profit</div> <div>126 000</div> <div>(1)OF</div> </div> <div> <div></div> <div>502 000</div> <div></div> </div> <div> <div></div> <div></div> <div></div> </div> <div> <div></div> <div>200 000</div> <div>) (1)</div> </div> <div> <div></div> <div>61 000</div> <div>) (1)</div> </div> <div> <div></div> <div>84 000</div> <div>(1)OF</div> </div> <div> <div></div> <div>345 000</div> <div></div> </div> </div> |  |  |  | 11    |
|          | <div> <div> <div>Workings:</div> <div></div> </div> <div> <div>\$</div> <div>\$</div> </div> <div> <div>Purchase consideration</div> <div>800 000</div> <div></div> </div> <div> <div>Cash</div> <div>(127 500)</div> <div></div> </div> <div> <div>8% Debentures</div> <div></div> <div></div> </div> <div> <div>Alex \$15 000÷8%</div> <div>187 500</div> <div>(1)</div> </div> <div> <div>Brown \$10 000÷8%</div> <div>125 000</div> <div>(1)</div> </div> <div> <div>Settled by ordinary shares</div> <div></div> <div></div> </div> <div> <div>Alex \$360 000×60%</div> <div>216 000</div> <div>(1)OF</div> </div> <div> <div>Brown \$360 000×40%</div> <div>144 000</div> <div>(1)OF</div> </div> <div> <div></div> <div>(312 500)</div> <div></div> </div> <div> <div></div> <div>360 000</div> <div></div> </div> <div> <div></div> <div>(360 000)</div> <div></div> </div> <div> <div></div> <div>0</div> <div></div> </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |       |

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| Question | Answer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Marks     |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| 4(e)     | <p>The responses may include:</p> <ul style="list-style-type: none"> <li>• ROCE before the acquisition is 7.79% (\$352 000/\$4 516 000)</li> <li>• Additional return from this acquisition is 23.5% &lt;(\$540 000–\$352 000)/\$800 000&gt;</li> <li>• Shareholders may receive higher dividend</li> <li>• Improvement through the synergy effect, e.g. greater buying power, discounts from suppliers</li> <li>• Economy of scale</li> <li>• Alex and Brown's skills, experience and methods may bring additional benefits</li> <li>• Goodwill of partnership brings additional revenue/customers</li> <li>• Efficiency in operation</li> <li>• Access to wider market</li> </ul> <p>(1 mark) × 5 valid points</p> | 5         |
|          | <b>Total:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>25</b> |

| Question           | Answer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Marks        |                |    |  |       |  |         |     |               |        |     |  |                  |       |     |  |                    |       |     |  |                 |              |     |                |        |  |              |       |   |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------|----|--|-------|--|---------|-----|---------------|--------|-----|--|------------------|-------|-----|--|--------------------|-------|-----|--|-----------------|--------------|-----|----------------|--------|--|--------------|-------|---|
| 5(a)               | <div>Flexed budget for April</div> <table><tr><td></td><td>\$</td><td>\$</td><td></td></tr><tr><td>Sales</td><td></td><td>270 000</td><td>(1)</td></tr><tr><td>Direct labour</td><td>75 600</td><td>(1)</td><td></td></tr><tr><td>Direct materials</td><td>65880</td><td>(1)</td><td></td></tr><tr><td>Variable overheads</td><td>18000</td><td>(1)</td><td></td></tr><tr><td>Fixed overheads</td><td><u>19300</u></td><td>(1)</td><td><u>178 780</u></td></tr><tr><td>Profit</td><td></td><td><u>91220</u></td><td>(1)OF</td></tr></table> |              | \$             | \$ |  | Sales |  | 270 000 | (1) | Direct labour | 75 600 | (1) |  | Direct materials | 65880 | (1) |  | Variable overheads | 18000 | (1) |  | Fixed overheads | <u>19300</u> | (1) | <u>178 780</u> | Profit |  | <u>91220</u> | (1)OF | 6 |
|                    | \$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | \$           |                |    |  |       |  |         |     |               |        |     |  |                  |       |     |  |                    |       |     |  |                 |              |     |                |        |  |              |       |   |
| Sales              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 270 000      | (1)            |    |  |       |  |         |     |               |        |     |  |                  |       |     |  |                    |       |     |  |                 |              |     |                |        |  |              |       |   |
| Direct labour      | 75 600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | (1)          |                |    |  |       |  |         |     |               |        |     |  |                  |       |     |  |                    |       |     |  |                 |              |     |                |        |  |              |       |   |
| Direct materials   | 65880                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | (1)          |                |    |  |       |  |         |     |               |        |     |  |                  |       |     |  |                    |       |     |  |                 |              |     |                |        |  |              |       |   |
| Variable overheads | 18000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | (1)          |                |    |  |       |  |         |     |               |        |     |  |                  |       |     |  |                    |       |     |  |                 |              |     |                |        |  |              |       |   |
| Fixed overheads    | <u>19300</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (1)          | <u>178 780</u> |    |  |       |  |         |     |               |        |     |  |                  |       |     |  |                    |       |     |  |                 |              |     |                |        |  |              |       |   |
| Profit             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <u>91220</u> | (1)OF          |    |  |       |  |         |     |               |        |     |  |                  |       |     |  |                    |       |     |  |                 |              |     |                |        |  |              |       |   |
| 5(b)(i)            | LEV = 1050 (1) A (1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2            |                |    |  |       |  |         |     |               |        |     |  |                  |       |     |  |                    |       |     |  |                 |              |     |                |        |  |              |       |   |
| 5(b)(ii)           | LRV = 18 980 (1) A (1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2            |                |    |  |       |  |         |     |               |        |     |  |                  |       |     |  |                    |       |     |  |                 |              |     |                |        |  |              |       |   |
| 5(b)(iii)          | MUV = 1220 (1) A (1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2            |                |    |  |       |  |         |     |               |        |     |  |                  |       |     |  |                    |       |     |  |                 |              |     |                |        |  |              |       |   |
| 5(b)(iv)           | MPV = 3850 (1) F (1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2            |                |    |  |       |  |         |     |               |        |     |  |                  |       |     |  |                    |       |     |  |                 |              |     |                |        |  |              |       |   |

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| Question | Answer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Marks    |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 5(c)     | <p>MUV – extra hours meant staff were demotivated/tired which increased wastage (1)<br/> inefficient use of material (1)<br/> MPV – quantity discount given (1)<br/> purchased materials from cheaper supplier (1)</p> <p><b>Maximum 1 for MUV and 1 for MPV</b></p>                                                                                                                                                                                                                                         | <b>2</b> |
| 5(d)     | <p>The suggestion appears sound (1) because the actual labour costs are higher (1) by \$11 390 (2)* than labour costs under the suggestion.</p> <p>* (\$95 630 (1)–\$84 240 (1))=\$11 390</p> <p>But inexperienced staff might make more errors (1)<br/> leading to an increase in the adverse materials usage variance. (1).<br/> Although labour costs are saved there will be higher training costs (1)<br/> which will impact on production/profit (1).</p> <p><b>Decision (1) Justification (5)</b></p> | <b>6</b> |
| 5(e)     | <p>Helps preparation of budgets.<br/> Helps calculation of quotes/prices.<br/> Highlights the activities giving rise to the variances.<br/> Enables responsibility accounting.</p> <p>Any three comments × (1 mark)</p>                                                                                                                                                                                                                                                                                      | <b>3</b> |

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| Question               | Answer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Marks         |               |               |               |               |            |        |        |  |    |        |            |    |       |    |       |                |           |   |  |  |  |  |       |                      |  |         |  |  |  |  |            |              |  |  |  |  |  |        |                      |  |        |        |        |        |       |         |                        |  |       |       |       |       |       |         |                   |  |        |         |        |        |        |         |                  |                  |               |              |               |               |               |  |   |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|---------------|---------------|---------------|------------|--------|--------|--|----|--------|------------|----|-------|----|-------|----------------|-----------|---|--|--|--|--|-------|----------------------|--|---------|--|--|--|--|------------|--------------|--|--|--|--|--|--------|----------------------|--|--------|--------|--------|--------|-------|---------|------------------------|--|-------|-------|-------|-------|-------|---------|-------------------|--|--------|---------|--------|--------|--------|---------|------------------|------------------|---------------|--------------|---------------|---------------|---------------|--|---|
| 6(a)                   | <table><tr><td></td><td>Year 0</td><td>Year 1</td><td>Year2</td><td>Year 3</td><td>Year 4</td><td>Year 5</td><td></td></tr><tr><td></td><td>\$</td><td>\$</td><td>\$</td><td>\$</td><td>\$</td><td>\$</td><td></td></tr><tr><td>Initial outlay</td><td>(125 000)</td><td></td><td></td><td></td><td></td><td></td><td>(1)OF</td></tr><tr><td>One-off service cost</td><td></td><td>(1 000)</td><td></td><td></td><td></td><td></td><td rowspan="2">} (1) both</td></tr><tr><td>Resale value</td><td></td><td></td><td></td><td></td><td></td><td>65 000</td></tr><tr><td>Sales price increase</td><td></td><td>10 000</td><td>10 000</td><td>10 000</td><td>10 000</td><td>10000</td><td>(1) row</td></tr><tr><td>Variable cost decrease</td><td></td><td>20000</td><td>20000</td><td>20000</td><td>20000</td><td>20000</td><td>(1) row</td></tr><tr><td>Maintenance costs</td><td></td><td>(5000)</td><td>(5 000)</td><td>(5000)</td><td>(5000)</td><td>(5000)</td><td>(1) row</td></tr><tr><td>Total cash flows</td><td><u>(125 000)</u></td><td><u>24 000</u></td><td><u>25000</u></td><td><u>25 000</u></td><td><u>25 000</u></td><td><u>90 000</u></td><td></td></tr></table> |               | Year 0        | Year 1        | Year2         | Year 3        | Year 4     | Year 5 |        |  | \$ | \$     | \$         | \$ | \$    | \$ |       | Initial outlay | (125 000) |   |  |  |  |  | (1)OF | One-off service cost |  | (1 000) |  |  |  |  | } (1) both | Resale value |  |  |  |  |  | 65 000 | Sales price increase |  | 10 000 | 10 000 | 10 000 | 10 000 | 10000 | (1) row | Variable cost decrease |  | 20000 | 20000 | 20000 | 20000 | 20000 | (1) row | Maintenance costs |  | (5000) | (5 000) | (5000) | (5000) | (5000) | (1) row | Total cash flows | <u>(125 000)</u> | <u>24 000</u> | <u>25000</u> | <u>25 000</u> | <u>25 000</u> | <u>90 000</u> |  | 5 |
|                        | Year 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Year 1        | Year2         | Year 3        | Year 4        | Year 5        |            |        |        |  |    |        |            |    |       |    |       |                |           |   |  |  |  |  |       |                      |  |         |  |  |  |  |            |              |  |  |  |  |  |        |                      |  |        |        |        |        |       |         |                        |  |       |       |       |       |       |         |                   |  |        |         |        |        |        |         |                  |                  |               |              |               |               |               |  |   |
|                        | \$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | \$            | \$            | \$            | \$            | \$            |            |        |        |  |    |        |            |    |       |    |       |                |           |   |  |  |  |  |       |                      |  |         |  |  |  |  |            |              |  |  |  |  |  |        |                      |  |        |        |        |        |       |         |                        |  |       |       |       |       |       |         |                   |  |        |         |        |        |        |         |                  |                  |               |              |               |               |               |  |   |
| Initial outlay         | (125 000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |               |               |               |               |               | (1)OF      |        |        |  |    |        |            |    |       |    |       |                |           |   |  |  |  |  |       |                      |  |         |  |  |  |  |            |              |  |  |  |  |  |        |                      |  |        |        |        |        |       |         |                        |  |       |       |       |       |       |         |                   |  |        |         |        |        |        |         |                  |                  |               |              |               |               |               |  |   |
| One-off service cost   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | (1 000)       |               |               |               |               | } (1) both |        |        |  |    |        |            |    |       |    |       |                |           |   |  |  |  |  |       |                      |  |         |  |  |  |  |            |              |  |  |  |  |  |        |                      |  |        |        |        |        |       |         |                        |  |       |       |       |       |       |         |                   |  |        |         |        |        |        |         |                  |                  |               |              |               |               |               |  |   |
| Resale value           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               |               |               |               | 65 000        |            |        |        |  |    |        |            |    |       |    |       |                |           |   |  |  |  |  |       |                      |  |         |  |  |  |  |            |              |  |  |  |  |  |        |                      |  |        |        |        |        |       |         |                        |  |       |       |       |       |       |         |                   |  |        |         |        |        |        |         |                  |                  |               |              |               |               |               |  |   |
| Sales price increase   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 10 000        | 10 000        | 10 000        | 10 000        | 10000         | (1) row    |        |        |  |    |        |            |    |       |    |       |                |           |   |  |  |  |  |       |                      |  |         |  |  |  |  |            |              |  |  |  |  |  |        |                      |  |        |        |        |        |       |         |                        |  |       |       |       |       |       |         |                   |  |        |         |        |        |        |         |                  |                  |               |              |               |               |               |  |   |
| Variable cost decrease |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 20000         | 20000         | 20000         | 20000         | 20000         | (1) row    |        |        |  |    |        |            |    |       |    |       |                |           |   |  |  |  |  |       |                      |  |         |  |  |  |  |            |              |  |  |  |  |  |        |                      |  |        |        |        |        |       |         |                        |  |       |       |       |       |       |         |                   |  |        |         |        |        |        |         |                  |                  |               |              |               |               |               |  |   |
| Maintenance costs      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | (5000)        | (5 000)       | (5000)        | (5000)        | (5000)        | (1) row    |        |        |  |    |        |            |    |       |    |       |                |           |   |  |  |  |  |       |                      |  |         |  |  |  |  |            |              |  |  |  |  |  |        |                      |  |        |        |        |        |       |         |                        |  |       |       |       |       |       |         |                   |  |        |         |        |        |        |         |                  |                  |               |              |               |               |               |  |   |
| Total cash flows       | <u>(125 000)</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <u>24 000</u> | <u>25000</u>  | <u>25 000</u> | <u>25 000</u> | <u>90 000</u> |            |        |        |  |    |        |            |    |       |    |       |                |           |   |  |  |  |  |       |                      |  |         |  |  |  |  |            |              |  |  |  |  |  |        |                      |  |        |        |        |        |       |         |                        |  |       |       |       |       |       |         |                   |  |        |         |        |        |        |         |                  |                  |               |              |               |               |               |  |   |
| 6(b)                   | <table><tr><td>Year</td><td>Net cash flow</td><td></td></tr><tr><td></td><td>\$</td><td></td></tr><tr><td>1</td><td>24 000</td><td></td></tr><tr><td>2</td><td>25 000</td><td rowspan="4">} \$99 000</td></tr><tr><td>3</td><td>25000</td></tr><tr><td>4</td><td>25000</td></tr><tr><td>5</td><td>90000</td></tr></table> <p>\$125 000–\$99 000=\$26 000/\$90 000=0.288×12 mth=3.47 mth<br/>Answer: 4 years (1)OF 4 months (1)OF</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Year          | Net cash flow |               |               | \$            |            | 1      | 24 000 |  | 2  | 25 000 | } \$99 000 | 3  | 25000 | 4  | 25000 | 5              | 90000     | 2 |  |  |  |  |       |                      |  |         |  |  |  |  |            |              |  |  |  |  |  |        |                      |  |        |        |        |        |       |         |                        |  |       |       |       |       |       |         |                   |  |        |         |        |        |        |         |                  |                  |               |              |               |               |               |  |   |
| Year                   | Net cash flow                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |               |               |               |               |               |            |        |        |  |    |        |            |    |       |    |       |                |           |   |  |  |  |  |       |                      |  |         |  |  |  |  |            |              |  |  |  |  |  |        |                      |  |        |        |        |        |       |         |                        |  |       |       |       |       |       |         |                   |  |        |         |        |        |        |         |                  |                  |               |              |               |               |               |  |   |
|                        | \$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               |               |               |               |               |            |        |        |  |    |        |            |    |       |    |       |                |           |   |  |  |  |  |       |                      |  |         |  |  |  |  |            |              |  |  |  |  |  |        |                      |  |        |        |        |        |       |         |                        |  |       |       |       |       |       |         |                   |  |        |         |        |        |        |         |                  |                  |               |              |               |               |               |  |   |
| 1                      | 24 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |               |               |               |               |            |        |        |  |    |        |            |    |       |    |       |                |           |   |  |  |  |  |       |                      |  |         |  |  |  |  |            |              |  |  |  |  |  |        |                      |  |        |        |        |        |       |         |                        |  |       |       |       |       |       |         |                   |  |        |         |        |        |        |         |                  |                  |               |              |               |               |               |  |   |
| 2                      | 25 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | } \$99 000    |               |               |               |               |            |        |        |  |    |        |            |    |       |    |       |                |           |   |  |  |  |  |       |                      |  |         |  |  |  |  |            |              |  |  |  |  |  |        |                      |  |        |        |        |        |       |         |                        |  |       |       |       |       |       |         |                   |  |        |         |        |        |        |         |                  |                  |               |              |               |               |               |  |   |
| 3                      | 25000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |               |               |               |               |            |        |        |  |    |        |            |    |       |    |       |                |           |   |  |  |  |  |       |                      |  |         |  |  |  |  |            |              |  |  |  |  |  |        |                      |  |        |        |        |        |       |         |                        |  |       |       |       |       |       |         |                   |  |        |         |        |        |        |         |                  |                  |               |              |               |               |               |  |   |
| 4                      | 25000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |               |               |               |               |            |        |        |  |    |        |            |    |       |    |       |                |           |   |  |  |  |  |       |                      |  |         |  |  |  |  |            |              |  |  |  |  |  |        |                      |  |        |        |        |        |       |         |                        |  |       |       |       |       |       |         |                   |  |        |         |        |        |        |         |                  |                  |               |              |               |               |               |  |   |
| 5                      | 90000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |               |               |               |               |            |        |        |  |    |        |            |    |       |    |       |                |           |   |  |  |  |  |       |                      |  |         |  |  |  |  |            |              |  |  |  |  |  |        |                      |  |        |        |        |        |       |         |                        |  |       |       |       |       |       |         |                   |  |        |         |        |        |        |         |                  |                  |               |              |               |               |               |  |   |
| 6(c)                   | <p>Simple to calculate/understand.<br/>Uses cash flows not profits so not corrupted by accounting methods.<br/>Reduces risk by preferring early cash flows/short term projects.<br/>Useful as a first screening tool.<br/>Useful for capital rationing decisions to identify those projects that generate cash quickly.<br/>Better for liquidity–prefers early cash flows.</p> <p>(1 mark) × any 3 reasons, Max 3</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3             |               |               |               |               |            |        |        |  |    |        |            |    |       |    |       |                |           |   |  |  |  |  |       |                      |  |         |  |  |  |  |            |              |  |  |  |  |  |        |                      |  |        |        |        |        |       |         |                        |  |       |       |       |       |       |         |                   |  |        |         |        |        |        |         |                  |                  |               |              |               |               |               |  |   |

**PUBLISHED**

| Question             | Answer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |        |        |        |        |       |  | Marks |        |        |       |        |        |        |     |  |  |    |    |    |    |    |    |    |  |                  |           |        |        |        |        |        |  |  |                 |   |       |       |       |       |       |  |  |                      |           |        |        |        |        |        |      |  |  |       |  |  |  |  |  |       |  |  |  |   |   |   |   |   |  |  |  |  |                   |  |  |  |  |  |  |   |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------|--------|--------|--------|-------|--|-------|--------|--------|-------|--------|--------|--------|-----|--|--|----|----|----|----|----|----|----|--|------------------|-----------|--------|--------|--------|--------|--------|--|--|-----------------|---|-------|-------|-------|-------|-------|--|--|----------------------|-----------|--------|--------|--------|--------|--------|------|--|--|-------|--|--|--|--|--|-------|--|--|--|---|---|---|---|---|--|--|--|--|-------------------|--|--|--|--|--|--|---|
| 6(d)                 | <table><tr><td></td><td>Year 0</td><td>Year 1</td><td>Year2</td><td>Year 3</td><td>Year 4</td><td>Year 5</td><td>NPV</td><td></td></tr><tr><td></td><td>\$</td><td>\$</td><td>\$</td><td>\$</td><td>\$</td><td>\$</td><td>\$</td><td></td></tr><tr><td>Total cash flows</td><td>(125 000)</td><td>24 000</td><td>25 000</td><td>25 000</td><td>25 000</td><td>90 000</td><td></td><td></td></tr><tr><td>Discount factor</td><td>1</td><td>0.909</td><td>0.826</td><td>0.751</td><td>0.683</td><td>0.621</td><td></td><td></td></tr><tr><td>Discounted cash flow</td><td>(125 000)</td><td>21 816</td><td>20 650</td><td>18 775</td><td>17 075</td><td>55 890</td><td>9206</td><td></td></tr><tr><td></td><td>(1)OF</td><td></td><td></td><td></td><td></td><td></td><td>(1)OF</td><td></td></tr><tr><td></td><td></td><td>⌋</td><td>⌋</td><td>⌋</td><td>⌋</td><td>⌋</td><td></td><td></td></tr><tr><td></td><td></td><td colspan="6">all 5 years (1)OF</td><td></td></tr></table> |                   |        |        |        |        |       |  |       | Year 0 | Year 1 | Year2 | Year 3 | Year 4 | Year 5 | NPV |  |  | \$ | \$ | \$ | \$ | \$ | \$ | \$ |  | Total cash flows | (125 000) | 24 000 | 25 000 | 25 000 | 25 000 | 90 000 |  |  | Discount factor | 1 | 0.909 | 0.826 | 0.751 | 0.683 | 0.621 |  |  | Discounted cash flow | (125 000) | 21 816 | 20 650 | 18 775 | 17 075 | 55 890 | 9206 |  |  | (1)OF |  |  |  |  |  | (1)OF |  |  |  | ⌋ | ⌋ | ⌋ | ⌋ | ⌋ |  |  |  |  | all 5 years (1)OF |  |  |  |  |  |  | 3 |
|                      | Year 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Year 1            | Year2  | Year 3 | Year 4 | Year 5 | NPV   |  |       |        |        |       |        |        |        |     |  |  |    |    |    |    |    |    |    |  |                  |           |        |        |        |        |        |  |  |                 |   |       |       |       |       |       |  |  |                      |           |        |        |        |        |        |      |  |  |       |  |  |  |  |  |       |  |  |  |   |   |   |   |   |  |  |  |  |                   |  |  |  |  |  |  |   |
|                      | \$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | \$                | \$     | \$     | \$     | \$     | \$    |  |       |        |        |       |        |        |        |     |  |  |    |    |    |    |    |    |    |  |                  |           |        |        |        |        |        |  |  |                 |   |       |       |       |       |       |  |  |                      |           |        |        |        |        |        |      |  |  |       |  |  |  |  |  |       |  |  |  |   |   |   |   |   |  |  |  |  |                   |  |  |  |  |  |  |   |
| Total cash flows     | (125 000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 24 000            | 25 000 | 25 000 | 25 000 | 90 000 |       |  |       |        |        |       |        |        |        |     |  |  |    |    |    |    |    |    |    |  |                  |           |        |        |        |        |        |  |  |                 |   |       |       |       |       |       |  |  |                      |           |        |        |        |        |        |      |  |  |       |  |  |  |  |  |       |  |  |  |   |   |   |   |   |  |  |  |  |                   |  |  |  |  |  |  |   |
| Discount factor      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.909             | 0.826  | 0.751  | 0.683  | 0.621  |       |  |       |        |        |       |        |        |        |     |  |  |    |    |    |    |    |    |    |  |                  |           |        |        |        |        |        |  |  |                 |   |       |       |       |       |       |  |  |                      |           |        |        |        |        |        |      |  |  |       |  |  |  |  |  |       |  |  |  |   |   |   |   |   |  |  |  |  |                   |  |  |  |  |  |  |   |
| Discounted cash flow | (125 000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 21 816            | 20 650 | 18 775 | 17 075 | 55 890 | 9206  |  |       |        |        |       |        |        |        |     |  |  |    |    |    |    |    |    |    |  |                  |           |        |        |        |        |        |  |  |                 |   |       |       |       |       |       |  |  |                      |           |        |        |        |        |        |      |  |  |       |  |  |  |  |  |       |  |  |  |   |   |   |   |   |  |  |  |  |                   |  |  |  |  |  |  |   |
|                      | (1)OF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |        |        |        |        | (1)OF |  |       |        |        |       |        |        |        |     |  |  |    |    |    |    |    |    |    |  |                  |           |        |        |        |        |        |  |  |                 |   |       |       |       |       |       |  |  |                      |           |        |        |        |        |        |      |  |  |       |  |  |  |  |  |       |  |  |  |   |   |   |   |   |  |  |  |  |                   |  |  |  |  |  |  |   |
|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ⌋                 | ⌋      | ⌋      | ⌋      | ⌋      |       |  |       |        |        |       |        |        |        |     |  |  |    |    |    |    |    |    |    |  |                  |           |        |        |        |        |        |  |  |                 |   |       |       |       |       |       |  |  |                      |           |        |        |        |        |        |      |  |  |       |  |  |  |  |  |       |  |  |  |   |   |   |   |   |  |  |  |  |                   |  |  |  |  |  |  |   |
|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | all 5 years (1)OF |        |        |        |        |       |  |       |        |        |       |        |        |        |     |  |  |    |    |    |    |    |    |    |  |                  |           |        |        |        |        |        |  |  |                 |   |       |       |       |       |       |  |  |                      |           |        |        |        |        |        |      |  |  |       |  |  |  |  |  |       |  |  |  |   |   |   |   |   |  |  |  |  |                   |  |  |  |  |  |  |   |
| 6(e)                 | $10\% (1) + \left[ 20 - 10(1) \times \frac{9206}{9206 + 24953} (1OF) \right] = 12.695\% (1)OF$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   |        |        |        |        |       |  | 4     |        |        |       |        |        |        |     |  |  |    |    |    |    |    |    |    |  |                  |           |        |        |        |        |        |  |  |                 |   |       |       |       |       |       |  |  |                      |           |        |        |        |        |        |      |  |  |       |  |  |  |  |  |       |  |  |  |   |   |   |   |   |  |  |  |  |                   |  |  |  |  |  |  |   |
| 6(f)                 | <p>NPV Both are positive but alternative machine has the better/higher NPV (1)</p> <p>IRR First machine has the better/higher IRR (1)</p> <p>Payback First machine has the better/shorter payback (1)</p> <p>Cost First machine has the lower initial outlay which helps as Tisha has limited capital available (1)</p> <p>Choose the first machine (1)</p> <p><b>1 For decision + Maximum 3 for reasons</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |        |        |        |        |       |  | 4     |        |        |       |        |        |        |     |  |  |    |    |    |    |    |    |    |  |                  |           |        |        |        |        |        |  |  |                 |   |       |       |       |       |       |  |  |                      |           |        |        |        |        |        |      |  |  |       |  |  |  |  |  |       |  |  |  |   |   |   |   |   |  |  |  |  |                   |  |  |  |  |  |  |   |
| 6(g)                 | <p>Cash flow patterns (1) how reliable are they? (1)</p> <p>Which one is closest to current ROCE (1)</p> <p>Cost of capital (1)</p> <p>Source of capital/funding (1)</p> <p>Quality of output (1)</p> <p>Training time/costs (1)</p> <p>Environmental issues (1)</p> <p><b>1 mark for valid point, Max 4</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |        |        |        |        |       |  | 4     |        |        |       |        |        |        |     |  |  |    |    |    |    |    |    |    |  |                  |           |        |        |        |        |        |  |  |                 |   |       |       |       |       |       |  |  |                      |           |        |        |        |        |        |      |  |  |       |  |  |  |  |  |       |  |  |  |   |   |   |   |   |  |  |  |  |                   |  |  |  |  |  |  |   |
|                      | Total:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |        |        |        |        |       |  | 25    |        |        |       |        |        |        |     |  |  |    |    |    |    |    |    |    |  |                  |           |        |        |        |        |        |  |  |                 |   |       |       |       |       |       |  |  |                      |           |        |        |        |        |        |      |  |  |       |  |  |  |  |  |       |  |  |  |   |   |   |   |   |  |  |  |  |                   |  |  |  |  |  |  |   |