GradeMax

Cambridge International AS & A Level

Cambridge Assessment International Education
Cambridge International Advanced Subsidiary and Advanced Level

ACCOUNTING **9706/21**

Paper 2 Structured Questions **May/June 2018**

MARK SCHEME

Maximum Mark: 90

Published

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Generic Marking Principles

These general marking principles must be applied by all examiners when marking candidate answers. They should be applied alongside the specific content of the mark scheme or generic level descriptors for a question. Each question paper and mark scheme will also comply with these marking principles.

GENERIC MARKING PRINCIPLE 1:

Marks must be awarded in line with:

- the specific content of the mark scheme or the generic level descriptors for the question
- the specific skills defined in the mark scheme or in the generic level descriptors for the question
- the standard of response required by a candidate as exemplified by the standardisation scripts.

GENERIC MARKING PRINCIPLE 2:

Marks awarded are always **whole marks** (not half marks, or other fractions).

GENERIC MARKING PRINCIPLE 3:

Marks must be awarded **positively**:

- marks are awarded for correct/valid answers, as defined in the mark scheme. However, credit is given for valid answers which go beyond the scope of the syllabus and mark scheme, referring to your Team Leader as appropriate
- marks are awarded when candidates clearly demonstrate what they know and can do
- marks are not deducted for errors
- marks are not deducted for omissions
- answers should only be judged on the quality of spelling, punctuation and grammar when these features are specifically assessed by the question as indicated by the mark scheme. The meaning, however, should be unambiguous.

GENERIC MARKING PRINCIPLE 4:

Rules must be applied consistently e.g. in situations where candidates have not followed instructions or in the application of generic level descriptors.

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GENERIC MARKING PRINCIPLE 5:

Marks should be awarded using the full range of marks defined in the mark scheme for the question (however; the use of the full mark range may be limited according to the quality of the candidate responses seen).

GENERIC MARKING PRINCIPLE 6:

Marks awarded are based solely on the requirements as defined in the mark scheme. Marks should not be awarded with grade thresholds or grade descriptors in mind.

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Question	Answer	Marks
1(a)	Ashir, Bo and Chan Income statement for the year ended 31 December 2016 $ $ $ Gross profit 171 620 Operating expenses 54 560 **(1)** Staff Wages 33 360 **(1)** Loan interest 1 200 **(1)** Depreciation – Fixtures and fittings 1 100 Depreciation – motor vehicles 16 000 17 100 **(1)** 106 220 Profit for the year 65 400 **(1) OF**	**5**
1(b)	Ashir, Bo and Chan Profit and loss appropriation account for the year ended 31 December 2016 $ $ Profit for the year 65 400 **(1) OF** Interest on drawings Ashir 770 Bo 610 Chan 820 2 200 **(1 for all)** Interest on capital Ashir (2 400) Bo (1 800) Chan (600) (4 800) **(1 for all)** Salary Chan (12 000) **(1)** Attributable profit 50 800 Divisible Ashir 25 400 Bo 19 050 Chan 6 350 50 800 **(1 OF for all)**	**5**

Question	Answer	Marks

1(c)

Detail	Ashir $	Bo $	Chan $	Detail	Ashir $	Bo $	Chan $
Balance b/f			2 600	Balance b/f	12 300	8 200	
Interest on drawings **(1OF for line)**	770	610	820	Interest on capital **(1OF for line)**	2 400	1 800	600
Drawings **(1 for line)**	15 400	12 200	16 400	Loan interest **(1)**	1 200		
Balance c/d	25 130	16 240		Salary			12 000 **(1)**
				Profit for the year **(1OF for line)**	25 400	19 050	6 350
				Balance c/d			870
	41 300	29 050	19 820		41 300	29 050	19 820
Balance b/d **(1OF for line)**			870	Balance b/d	25 130	16 240	

1(d)

	$	
Capital account	10 000	
Current account	(870)	**(1)OF**
Motor vehicle	(18 000)	**(1)**
Goodwill	15 500	**(1)**
Due to Chan (correct label only)	6 630	**(1)OF**

4

1(e)

Separate entity
Limited liability for owners
Ability to raise finance

1 mark for each advantage – maximum 2 marks

Question	Answer	Marks
1(f)	Advice Yes he should maintain a full set of accounting records **(1)** **Reasons** **Advantages (Max 2)** Business is growing fast Enables closer monitoring of performance Enables Bilal to control the business performance Enable Bilal to maximise opportunities **Disadvantages (Max 2)** More time consuming Need to employ specialist staff **1 mark for advice, maximum 2 marks for advantages and max 2 marks for disadvantages**	**5**
1(g)	Minimises possibility of bad debts Independent check on arithmetic accuracy Reduces possibility of fraud Provides instant record of total trade receivables Facilitates preparation of financial statements **1 mark for each benefit – maximum 2 marks**	**2**

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Question	Answer	Marks
2(a)		**6**

	$		$	
Balance b/d	124 000		Disposal	36 000
Bank	28 000		Balance c/d	136 000
Disposal	20 000	**(1)**		
	172 000			172 000
Balance b/d	136 000	**(1)OF**		

Motor vehicles provision for depreciation

	$		$	
Disposal	15 750	Balance c/d	54 250	
Balance c/d	62 875	Income statement **W1**	24 375	**(1) OF**
	78 625		78 625	
		Balance b/d	62 875	**(1) OF**

Disposal of non-current assets

	$		$	
Motor vehicle at cost	36 000	Motor vehicle at cost	20 000	
		Motor vehicle provision for depreciation	15 750	**(1)**
		Income statement	250	**(1) OF**
	36 000		36 000	

W1: 136 000 – (54 250 – 15 750) × 25% = $24 375

Question	Answer	Marks
2(b)	Depreciation for the year ended 31 December 2015 would be $27 200 using the straight-line method, but $24 375 using the reducing balance method **(1)**. The loss on sale of the motor vehicle would be $1 600 (36 000 – 20 000 – 14 400) using the straight-line method, compared to $250 using the reducing balance method **(1of)**. Using straight line depreciation 27 200 + loss 1600 = $28 800 **(1)** Using reducing balance method 24 375 + loss 250 = $24 625 **(1)** Profit for the year would be reduced by $4 175 ($28 800 – 24 625) if using the straight-line method **(1of)**.	**5**
2(c)	Accruals / matching concept **(1).** The cost of using the asset should be matched to the time period of income earned by the asset **(1)**. Prudence **(1)**. Spreading the cost of an asset over its useful life avoids overstating annual profits / value of assets **(1)**. Consistency **(1).** Enables valid comparison. **(1)** **Max 4**	**4**

Question	Answer	Marks
3(a)(i)	Current ratio 63 580 / 28 760 **(1)** = 2.21 : 1 **(1)**	**2**
3(a)(ii)	Liquid (Acid) test ratio 5 480 / 28 760 **(1)** = 0.89 : 1 **(1)**	**2**
3(a)(iii)	Rate of inventory turnover 265 400 / 42 150 = 6.30 times per year **(1) OF** Workings: 331 750 / 100 × 80 **(1)** = 265 400 **(1)**	**3**

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Question	Answer	Marks
3(b)	Yuan has the higher current ratio **(1)** and liquid (acid) test ratio **(1)** Ravi has a negative liquid (acid) test ratio **(1)** therefore he would be less able to pay promptly **(1)** as he has more of his current assets tied up in inventory **(1)** She would need to consider that Yuan has more assets lying idle and so he may not be as efficient. **(1)** She should try to discover more about their long term assets and liabilities **(1)** Decision **(1)** mark Justification **Max 4 marks**	**5**
3(c)	Historic Window dressing Different accounting policies Different year end Different sizes 1 mark for each point to a **max of 3** Accept other valid points	**3**

Question	Answer	Marks
4(a)	$ Direct labour 38 500 Direct material 24 750 Variable factory cost (13 750 – 5 500) 8 250 71 500 **(1)** ÷ 11 000 units = $6.50 per unit **(1)** or $84 500 ÷ 13 000 units = $6.50 per unit	**2**

Question	Answer	Marks
4(b)		**6**

		Year 1 $		Year 2 $	
Revenue	(10 000 × $18)	180 000	(11 000 × $18)	198 000	**(1) both**
Variable production cost	(10 000 **(1)** × $6.50)	(65 000)	(11 000 **(1)** × $6.50)	(71 500)	
Variable selling costs	(180 000 × 5%)	(9 000)	(198 000 × 5%)	(9 900)	**(1)OF both**
Contribution		106 000 **(1)OF**		116 600	**(1)OF**

Alternative layout

	Per unit $		Year 1 $		Year 2 $	
Selling price	18	**(1)**				
Variable production costs	(6.50)					
	11.50	× 10 000 **(1)**	= 115 000	× 11 000 **(1)**	= 126 500	
Variable selling costs			(9 000)		(9 900)	**(1)OF both**
Contribution			106 000 **(1)OF**		116 600	**(1)OF**

Question	Answer	Marks
4(c)		**2**

		Year 1		Year 2	
		$		$	
Direct labour		38 500		45 500	
Direct material		24 750		29 250	
Factory cost		13 750		15 250	
		$77 000		$90 000	
		÷ 11 000	Units	÷ 13 000	
	=	$7	Per unit **(1)**	$6.92	Per unit **(1)**

4(d)	It is more time consuming to calculate the overhead absorption rate and adjust for over / under absorption. It is more complicated to calculate and managers may need training. It is irrelevant in short term decision making as fixed costs don't change. Fixed costs relate to a period in time and so can be misleading to charge to production units. The basis used to apportion and absorb overheads may be arbitrary. **(1 mark)** × any two limitations **Max 2**	**2**

Question	Answer	Marks

4(e)

		Year 1 $		Year 2 $	
Revenue	(10 000 × $18)	180 000	(11 000 × $18)	198 000	**(1) row**
Production cost	(10 000 × $7)	(70 000)	**(1)OF** (1 000 × $7)	(7 000)	**(1)OF**
			(10 000 × $6.92)	(69 200)	**(1)OF**
Selling costs:					
– variable	(180 000 × 5%)	(9 000)	(198 000 × 5%)	(9 900)	**(1) row**
– fixed		(3 500)	(3 500 × 102%)	(3 570)	**(1) row**
Profit		97 500		108 330	**(1)OF row**

Alternative layout

			Year 1 $			**Year 2** $	
Revenue	(10 000 × $18)		180 000	(11 000 × $18)		198 000	**(1) row**
Opening inventory	–		–	(1 000 × $7)	7 000		**(1)OF**
Purchases	(11 000 × $7)	77 000		(13 000 × $6.92)	89 960		**} (1)OF**
							} both
Closing inventory	(1 000 × $7)	(7 000)		(3 000 × $6.92)	(20 760)		**}**
Production cost			(70 000)	**(1)OF**		(76 200)	
Selling costs:							
– variable	(180 000 × 5%)		(9 000)	(198 000 × 5%)		(9 900)	**(1) row**
– fixed			(3 500)	(3 500 × 102%)		(3 570)	**(1) row**
Profit			97 500			108 330	**(1)OF row**

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Question	Answer	Marks
4(f)	Using marginal costing Closing inventory is valued at variable production cost and so shows a lower closing inventory value. **(1)** Fixed overheads are treated as period costs **(1)** and are written off in the period's income statement. **(1)** Using absorption costing Closing inventory is valued at full production cost and so shows a higher closing inventory value. **(1)** Fixed overheads are treated as part of production costs **(1)** and are carried forward as part of the inventory value. **(1)** **Max 3**	**3**
4(g)	**Calculation if variable selling expenses excluded (they remain the same)** Workings Lost order in year 1 / Replacement order Selling price: $18 / ($18 × –7.5%) / $16.65 Variable production cost: – 6.50 / – 6.65 * Contribution: 11.50 × 3 000 units = $34 500 / 10.00 × 3 000 units = $30 000 * Variable production cost 6.50 Additional direct labour 0.15 6.65 Change in budgeted profit: $ Loss of contribution $34 500 – $30 000 = (4 500) **(1)** Increase in advertising costs (1 000) **(1)** **Decrease** in profit (5 500) **(1)OF**	**3**

Question	Answer	Marks
4(g)	**Alternative calculation if variable selling expenses included**	**3**

Workings

	Lost order in year 1			Replacement order		
	$			$		
Selling price	18			16.65		
Variable production cost	– 6.50			– 6.65		
Variable selling expenses	– 0.9	*		– 0.9	*	
Contribution	10.60	× 3 000 units	= $31 800	9.10	× 3 000 units	= $27 300

*

$9 000 / 10 000 units = 0.9

Change in budgeted profit:

		$	
Loss of contribution	$31 800 – $27 300	(4 500)	**(1)**
Increase in advertising costs		(1 000)	**(1)**
Decrease in profit		(5 500)	**(1)OF**

Question	Answer	Marks
4(h)	Proceed or not **(1)** The campaign will result in a loss of profit but will still have positive contribution. How short term is the price decrease / is it only for this one order? Will it affect year 2 profits? Will fixed costs be covered in the long term? Will the increase in advertising be enough to generate the expected level of demand? What will the existing customers reactions be to the price decrease for new customers? If they do not get new customers: What will the morale of the existing workers be like after staff reduction? Will the quality of the goods go down if there are fewer workers? How temporary will the loss of staff be? Will Zinan be able to re-recruit the skilled staff in year 2 when new orders come in? At what extra cost? **(1 mark)** × any 4 considerations **Max 5**	**5**