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CAMBRIDGE
International Education

Cambridge IGCSE™

CANDIDATE NAME

CENTRE NUMBER

CANDIDATE NUMBER

5741569207

INFORMATION AND COMMUNICATION TECHNOLOGY

0417/12

Paper 1 Theory

May/June 2026

1 hour 30 minutes

You must answer on the question paper.

No additional materials are needed.

INSTRUCTIONS

- Answer **all** questions.
- Use a black or dark blue pen.
- Write your name, centre number and candidate number in the boxes at the top of the page.
- Write your answer to each question in the space provided.
- Do **not** use an erasable pen. Do **not** use correction fluid or tape.
- Do **not** write on any bar codes.
- You may use an HB pencil for any diagrams, graphs or rough working.

INFORMATION

- The total mark for this paper is 80.
- The number of marks for each question or part question is shown in brackets [ ].
- No marks will be awarded for using brand names of software packages or hardware.

This document has **12** pages. Any blank pages are indicated.

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1 State the health issue that is most likely to be caused by the following. Your answers must be different.

Prolonged clicking on the mouse button.....

.....

Staring at a computer screen for a long period of time.....

.....

Sitting too close to the computer screen.....

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Not using a foot rest.....

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[4]

2 A spreadsheet can contain formulas and functions.

State **two** features of a formula which may not be found in a function.

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[2]

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3 A city museum allows its many visitors to book online.

(a) Describe the benefits of using an online booking system.

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..... [6]

(b) A ticket is sent to the visitor and displayed as:



State the input device used to read the ticket.

..... [1]

4 An ICT student has downloaded a file and notices that he no longer has access to his recycle bin. The school network manager states that this is caused by a computer virus.

(a) Explain what is meant by a computer virus.

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..... [3]

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(b) The student backs up his important computer files before removing the virus. He then restores his files.

Explain why this may **not** remove the virus from the computer.

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..... [1]

(c) Describe the methods that the student could use to protect his computer system from viruses.

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..... [4]

5 A student is creating a web page that contains tables.

(a) Explain **three** reasons for using tables in the web page.

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..... [3]

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(b) The student has placed an anchor on the web page.

Explain the function of an anchor.

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..... [3]

6 Many people play games online.

Discuss the ways in which potential dangers of using online gaming can be minimised.

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..... [6]

7 A school has a computerised weather station.

(a) State **three** sensors that could be used in the weather station to collect data about the weather.

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[3]

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(b) The weather station outputs its data using both a monitor and a printer.

Discuss the advantages and disadvantages of the system only using a printer for its output rather than only using a monitor.

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..... [6]

8 **(a)** Describe the differences between the internet and the world wide web.

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(b) Read the following list of words carefully.

Country	Domain	Filename	Hyperlink
Protocol	Sub-domain	Title	Web

Using items from the list, state which word relates to the following parts of this URL.

HTTPS://www.tawara.com/training/index.html

www.tawara.com.....

index.html.....

[2]

9 Pets must be fitted with a microchip. A veterinary surgeon can use RFID to read and display information about the pet.

(a) Describe how the pet's information on the microchip is read by RFID.

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(b) Describe the benefits of using microchip technology in this way.

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10 RAM is a type of internal memory in a computer.

(a) State **one** other type of internal memory.

..... [1]

(b) State **three** characteristics of RAM.

1.....

2.....

3.....

[3]

11 A computer system can use a graphical user interface or a dialogue based interface.

Compare graphical user interfaces with dialogue based interfaces. Your answer must show both similarities and differences.

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12 The Principal of Tawara University is creating a group on social media for their students. Social media has both benefits and drawbacks.

(a) Describe **three** drawbacks of using social media for this purpose.

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2.....

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..... [3]

(b) Explain how students could minimise risks when using social media.

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..... [3]

13 A WLAN is a type of network.

(a) Explain what is meant by a WLAN.

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(b) State the benefits and drawbacks of using a WLAN.

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(c) State **two** other types of computer network.

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[2]

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