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CAMBRIDGE
International Education

Cambridge IGCSE™

CANDIDATE NAME

CENTRE NUMBER

CANDIDATE NUMBER

4128820242

INFORMATION AND COMMUNICATION TECHNOLOGY **0417/11**

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 prevented by each of the following. Your answers must be different.

Using an ergonomic keyboard.....

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Using an ergonomic chair.....

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Making sure the computer screen is free from dust and dirt.....

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Using an anti-glare computer screen.....

..... [4]

2 Desktop computers can be used for office work.

(a) Describe **four** characteristics of a desktop computer.

1.....

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(b) A motherboard is one of the internal components of a desktop computer.

Explain what is meant by a motherboard.

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..... [2]

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3 Members of a village council are planning to share a series of events. They could either produce a leaflet that is sent to all the households in the village or create a website to publicise the events.

(a) One characteristic of a website is that it can use audio. Describe **three** other characteristics of a website that would make it a suitable option for this task.

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[6]

(b) The members of the village council have decided to create a copy of the leaflet and send it out via email. They plan to create an email group using email addresses sent to them from the villagers. One of the constraints is that the email addresses need to be kept confidential.

Apart from keeping email addresses confidential, explain the other constraints of using an email group.

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..... [4]

(c) Personal data relating to individuals is stored on a computer. The file contains the following fields:

Name, Address, Telephone_number, Email_address, Age_if_under_18.

For each of the fields write down **one** reason why this data needs to be kept confidential.

(i) Name

.....

..... [1]

(ii) Address

.....

..... [1]

(iii) Telephone_number

.....

..... [1]

(iv) Age_if_under_18

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..... [1]

4 **(a)** When a new system is planned, a system specification is written.

Describe what is meant by a system specification.

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(b) After the system has been completed, technical documentation is produced.

State the purpose of technical documentation.

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..... [2]

(c) State **three** items that could be found in technical documentation.

1.....

2.....

3.....

[3]

5 An author has written a large document and is storing it in the cloud. The document contains many pages of text, images and diagrams. When the document is transmitted to the cloud over the internet it needs to be protected. One way of protecting the document is to use Secure Socket Layer (SSL).

(a) Describe the characteristics of Secure Socket Layer.

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(b) The document is stored in a file which needs to be compressed before it is stored in the cloud.

(i) Explain what is meant by file compression.

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(ii) Describe how the file is compressed.

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(c) Circle **two** file compression formats.

csv	css	gif	pdf
png	rar	rtf	zip

[2]

6 **(a)** Tawara Technology has produced a new tablet computer. Tawara Technology is planning presentations to show its customers and to brief its sales team.

State the differences in the presentation for each audience.

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(b) Tawara Technology uses its corporate house style in all of its correspondence.

Explain why a corporate house style is important.

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7 Programmers are developing a new gesture based user interface for a game.

(a) Evaluate the use of this type of user interface.

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(b) The gesture based user interface will use a camera to input the commands.

Describe how the camera is used with this system.

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..... [3]

8 A headteacher is planning to set up a backup of the confidential data stored on her office computer.

(a) Discuss the reasons why the headteacher should use a portable solid state drive for her backup.

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(b) The headteacher uses cloud storage.

Explain the drawbacks of using cloud storage for this backup.

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..... [4]

9 A search engine uses Artificial Intelligence (AI) to help the user search for information on the internet.

(a) Discuss the impact that AI has on searching for information on the internet.

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(b) One of the benefits of using a search engine is the 'speed of finding relevant information'.

Explain why this is **not** always the case. Include in your answer how this can be improved.

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10 A database contains a primary key.

State **four** characteristics of a primary key.

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