



CANDIDATE
NAME

--

CENTRE
NUMBER

--	--	--	--	--

CANDIDATE
NUMBER

--	--	--	--

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.



- 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.....

.....

Not using a foot rest.....

.....

[4]

- 2 A spreadsheet can contain formulas and functions.

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

1

.....

2

.....

[2]





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

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

This image shows a full page of white paper with ten evenly spaced horizontal dashed lines, typical of primary school handwriting practice paper. The lines extend across the entire width of the page, leaving small gaps between them. There are no margins, text, or other markings on the paper.

(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.

[illegible]



- (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.

.....
.....

[1]

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

.....
.....
.....
.....
.....
.....
.....
.....

[4]

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

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

1.....
.....
2.....
.....
3.....
.....

[3]





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

Explain the function of an anchor.

.....

.....

.....

.....

.....

.....

[3]

6 Many people play games online.

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

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

[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.

1.....

2.....

3.....

[3]





(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.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

[6]

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

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

[6]





(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.

.....

.....

.....

.....

.....

.....

[3]

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

.....

.....

.....

.....

.....

.....

[3]





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.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

[6]





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.

1.....
.....
2.....
.....
3.....
.....

[3]

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

.....
.....
.....
.....
.....
.....

[3]

13 A WLAN is a type of network.

(a) Explain what is meant by a WLAN.

.....
.....
.....
.....

[2]





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

.....

.....

.....

.....

.....

.....

.....

.....

[4]

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

1.....

2.....

[2]



BLANK PAGE



BLANK PAGE

DO NOT WRITE IN THIS MARGIN

DO NOT WRITE IN THIS MARGIN

DO NOT WRITE IN THIS MARGIN

DO NOT WRITE IN THIS MARGIN

DO NOT WRITE IN THIS MARGIN

Permission to reproduce items where third-party owned material protected by copyright is included has been sought and cleared where possible. Every reasonable effort has been made by the publisher (Cambridge University Press & Assessment) to trace copyright holders, but if any items requiring clearance have unwittingly been included, the publisher will be pleased to make amends at the earliest possible opportunity.

To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced online in our Copyright Acknowledgements Booklet. This is produced for each series of examinations and is freely available to download at www.cambridgeinternational.org after the live examination series.

Cambridge International Education is the name of our awarding body and a part of Cambridge University Press & Assessment, which is a department of the University of Cambridge.

