



Cambridge International AS & A Level

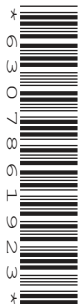
CANDIDATE
NAME

CENTRE
NUMBER

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INFORMATION TECHNOLOGY

9626/13

Paper 1 Theory

May/June 2021

1 hour 45 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 or correction fluid.
- Do **not** write on any bar codes.
- You may use an HB pencil for any diagrams, graphs or rough working.
- Calculators must **not** be used in this paper.

INFORMATION

- The total mark for this paper is 90.
- The number of marks for each question or part question is shown in brackets [].

This document has **20** pages. Any blank pages are indicated.

- 1 (a) A researcher has to choose between using a direct data source or an indirect data source. The data collected may be confidential and may need to be encrypted when sent over the internet.

Tick the statement that best describes the use of a direct data source.

	✓
Searching the World Wide Web to find weather data	
Interviewing residents living on a street to find out how busy the traffic on the street is	
Examining the census results for previous years	
Looking at a list of names and addresses of everyone who is registered to vote	

[1]

- (b) Data can exist in two states, dynamic or static.

Tick the most accurate statement referring to dynamic data.

	✓
Dynamic data is data that never changes.	
Data on a hard disk is an example of dynamic data.	
'Canada has a border with the United States' is an example of dynamic data.	
Dynamic data is never checked for accuracy before publication.	

[1]

- 2 Many computer users use a hard disk drive to store their data and use the cloud to back up this data.

(a) Tick the most accurate statement referring to the cloud.

	✓
It is a cheaper method than any other form of storage.	
Data is more secure than when stored using any other form of storage.	
Users have an unlimited amount of free storage.	
You can store data wherever you are, as long as there is an internet connection.	

[1]

(b) Tick the most accurate statement referring to a hard disk drive.

	✓
It is an optical method of storage.	
It can be used to store operating systems.	
It cannot store movies.	
It does not consist of moving parts.	

[1]

3 Explain how the following tasks are carried out using utility software:

(a) data compression

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..... [3]

(b) disk formatting

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..... [3]

(c) file deletion.

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..... [3]

- 5 A company has several IT rooms. The computers in each IT room are connected to the company's network. One of the physical safety issues is workers tripping over cables.

Describe, in detail, **three** other physical safety issues that can arise from the use of IT rooms. For each issue, give one method of helping to prevent it. Each method must be different.

Issue 1

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Prevention method

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Issue 2

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Prevention method

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Issue 3

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Prevention method

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[6]

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