



Cambridge International AS & A Level

CANDIDATE
NAME

CENTRE
NUMBER

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INFORMATION TECHNOLOGY

9626/11

Paper 1 Theory

October/November 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 **16** pages.

1 Phoebe is collecting data to find the level of pollution in a local river.

(a) Tick the most accurate statement regarding data.

	✓
A group of facts which are used in context is called a set of data.	
Data can only consist of text and numbers.	
Understanding that Paris, London and Berlin are capital cities of countries in Europe makes this a set of data.	
Data cannot be interpreted until it has a context.	

[1]

(b) Tick the most accurate statement regarding the relationship between data and information.

	✓
Data without a context is called information.	
Data is the result of processing information, usually by computer.	
Data that has meaning becomes information.	
Information, when arranged to make meaningful output, becomes data.	

[1]

2 (a) Tick the most accurate statement referring to the purpose of input devices.

	✓
A sensor is used to store data for later use.	
A magnetic chip reader is used to enter text directly from a bank card.	
A bar code reader is used to read magnetic ink characters.	
A touchpad is used to simulate the behaviour of a mouse when using a laptop computer.	

[1]

(b) Tick the most accurate statement referring to the purpose of output devices.

	✓
A laser printer can only be used to output low volumes of high-quality documents.	
A dot matrix printer can use continuous stationery.	
A plotter is used to output multi-part stationery.	
An inkjet printer is used to output high volumes of low-quality documents.	

[1]

5 A company owner wishes to buy software to use to produce advertising materials for her company. She can either buy custom written software or off-the-shelf software.

(a) Describe **three** benefits of using custom written software.

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(b) Describe **three** benefits of using off-the-shelf software.

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..... [3]

7 A company has several IT workers. To help reduce health issues the company encourages workers to take regular breaks.

Describe, in detail, **three** different health issues that can affect these workers. For each issue give one method, other than taking regular breaks, of helping to prevent it. Each method must be different.

Issue 1

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Prevention

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Issue 2

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Prevention

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Issue 3

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Prevention

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..... [6]

9 Video-conferencing is one use of the internet.

(a) Describe what is meant by the internet.

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..... [2]

(b) Explain why members of the general public use video-conferencing more now than when it was first introduced.

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..... [4]

12 A computer repair company employs a technician who uses an expert system to diagnose problems with printers. The company also employs a knowledge engineer.

(a) Explain how the technician would interact with the expert system.

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(b) Explain the role of the knowledge engineer.

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14 A manager has produced a training video. It has been given to the IT department to edit.

Describe the purpose of the following features of video editing software and how each could be used.

(a) Trimming
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..... [3]

(b) Adding captions
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..... [3]

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