



Cambridge International AS & A Level

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INFORMATION TECHNOLOGY

9626/33

Paper 3 Advanced Theory

October/November 2025

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 70.
- The number of marks for each question or part question is shown in brackets [].

This document has **12** pages.

- 1 Cellular networks provide mobile communication systems.

Describe the structure of a cellular network.

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..... [4]



2 A work flow shows how a task is carried out and completed in a project.

(a) Describe **two** elements that should be included in a project work flow.

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..... [2]

Project managers can use project management software to create and use work flows during a project.

(b) Describe how work flow is used by a project manager.

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..... [4]





[8]

[8]



4 Pivot tables are used to analyse data.

(a) Describe a data source that could be analysed using pivot tables.

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..... [1]

(b) Describe the benefits of using pivot tables to analyse data.

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..... [4]



5 Message switching can be used in networks to transfer data between devices.

(a) Describe how message switching transfers data between devices.

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..... [3]

(b) Explain why message switching is used to transfer data.

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..... [4]





- 6** A supermarket uses Wi-Fi instead of copper cables in its stores to connect sales terminals into its network.

Discuss the advantages and disadvantages of using Wi-Fi for the connections.

[8]



7 The JavaScript code in Fig. 7.1 is executed when it is loaded into a web browser.

The line numbers are for reference only.

```
1 <html>
2 <body>
3
4 <p id="ALP3"></p>
5
6 <script>
7
8   const qp = ["A Level", "IT", "9626", "Paper", 3];
9
10  let paper = "";
11  for (let x in qp) {
12    paper += qp[x] + "<BR>";
13  }
14
15  document.getElementById("ALP3").innerHTML = paper;
16
17 </script>
18
19 </body>
20 </html>
```

Fig. 7.1

Explain how the code produces the list shown in Fig.7.2.

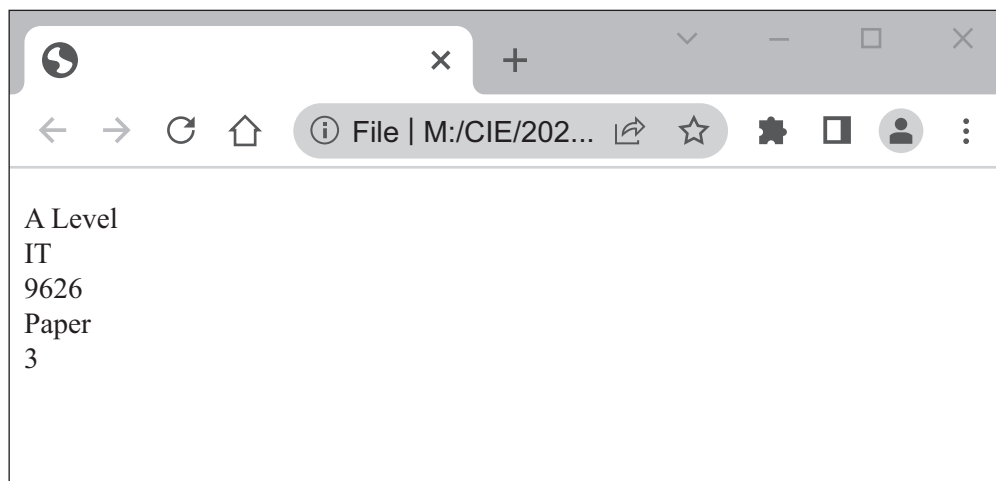


Fig. 7.2





[6]





8 In computer animation, objects can be made to appear to move at different speeds.

Describe how an animator can control the speed at which objects appear to move.

[6]

9 Central bank digital base money is a type of digital currency.

Describe the characteristics of central bank digital base money.

[4]





10 (a) Describe how BitTorrent is used to transfer large files.

[4]

(b) (i) Explain why network administrators may decide to restrict the use of BitTorrent.

[3]

(ii) Describe **one** way that a company employee may still be able to use BitTorrent despite the restrictions put in place by network administrators.

..... [1]





- 11 A new stock control system is to be installed at a supermarket warehouse. Different methods of implementing the changeover from the old system to the new system are being considered by the management of the supermarket.

Discuss the benefits and drawbacks of direct changeover.

[8]

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