



Cambridge International AS & A Level

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INFORMATION TECHNOLOGY

9626/32

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 Autonomous transport systems are emerging technologies.

(a) Describe what is meant by an autonomous transport system.

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..... [2]

(b) Describe how autonomous transport systems could be used in healthcare.

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..... [4]



- 2 Image editing software provides several tools for the accurate placement of objects on a digital canvas.

Describe how each of the following tools is used to precisely position an object when creating a bitmap image.

(a) grids

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..... [3]

(b) guidelines

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..... [3]





Your answer must include both similarities and differences.

[5]



4 Discuss the impact of the Internet of Things (IoT) on individuals.

[6]





5 A new database has been installed to manage the stock in a warehouse.

Explain why an evaluation needs to be carried out on the new database.

[6]





6 Describe the purpose of the user requirements specification for a new system.

[6]





7 Virtual currency can be used instead of physical bank notes and coins to buy goods and services.

Discuss the advantages and disadvantages of the use of virtual currency.

[8]



- 8 Business data can be at risk from a disaster such as malware or cybercrime. A disaster can result in the loss or theft of data. Risk testing and the quantifying of risks helps to minimise data loss and disruption.

(a) Describe the purpose of risk testing.

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(b) Describe how the risk to data can be quantified.

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- 9 The network interface card (NIC) in a device is automatically assigned an internet protocol (IP) address when the device connects to a network.

(a) Describe how the IP address is automatically assigned to the NIC.

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..... [3]

(b) Describe how the IP address is used when exchanging data with other devices.

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..... [4]





- 10** JavaScript code can be executed when an HTML event happens in a web browser. An example of an HTML event is when a user clicks a mouse button.

- (a) Describe how the JavaScript in this HTML code changes the display of text on the web page when a mouse button is clicked.

The line numbers are included for reference only.

```

1  <html>
2  <body>
3
4  <h2>Cambridge International JS Code: HTML Event</h2>
5  <h2 onclick="changeText(this)">Click on this line to see the name
   of this 9626 QP</h2>
6
7      <script>
8          function changeText(id) {
9              id.innerHTML = "A Level IT Paper 3";
10             }
11     </script>
12
13 </body>
14 </html>

```

[4]

- (b)** Describe **two** other HTML events that can be used to trigger the execution of JavaScript code.

[2]





11 Evaluate the use of email by governments.

[8]

[8]

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