



Cambridge International AS & A Level

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INFORMATION TECHNOLOGY

9626/32

Paper 3 Advanced Theory

May/June 2026

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. 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.
- Calculators must **not** be used in this paper.

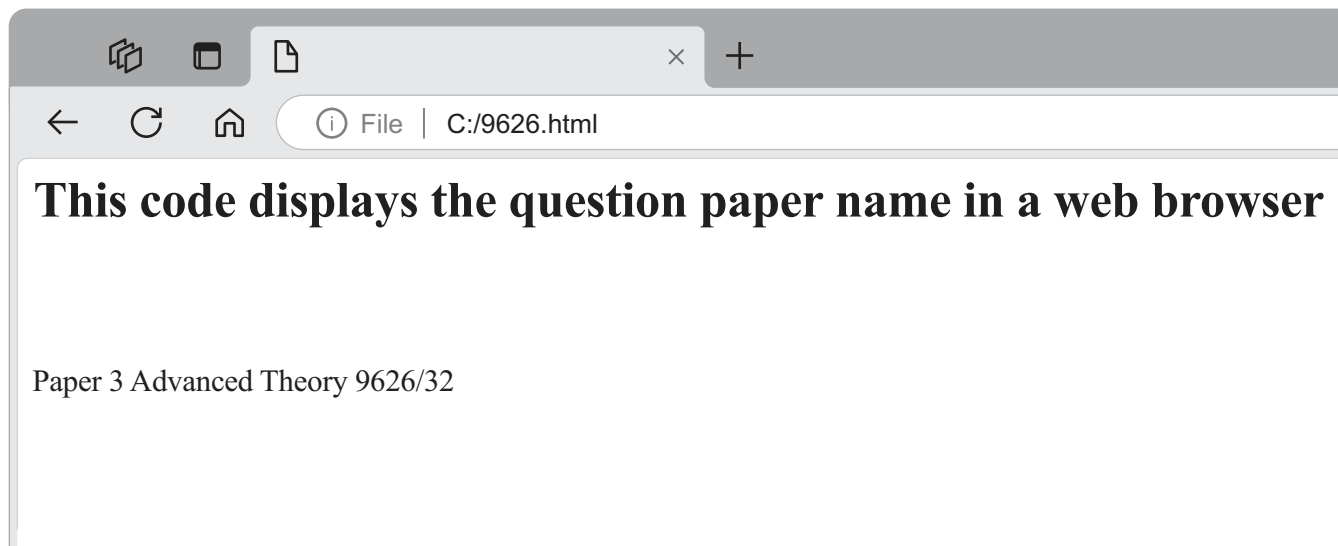
INFORMATION

- 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 **16** pages. Any blank pages are indicated.

- 1 Data that is output from JavaScript code is passed to HTML so that a web browser can display it.

A web page displays the name of a question paper in a web browser. The emboldened title of the page is created by HTML code, but the name of the question paper is output by JavaScript code and is displayed.



The web page code is shown. The line numbers are only for reference.

```
1 <html>
2 <body>
3 <h2>This code displays the question paper name in a web browser</h2>
4 <br>
5 <br>
6 <p id="QPname"></p>
7
8 <script>
9     var a = "9626/32";
10    var b = "Paper 3 Advanced Theory";
11    document.getElementById("QPname").innerHTML = b + " " + a;
12 </script>
13
14 </body>
15 </html>
```



2 Augmented reality (AR) and virtual reality (VR) can both be used in healthcare.

(a) Contrast augmented reality (AR) and virtual reality (VR).

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(b) Describe, with an example, the use of augmented reality (AR) in healthcare.

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- 3 A school has a network that allows students and staff to use the services provided by the internet. The school uses a proxy server.

(a) Explain **four** benefits to the school of using a proxy server.

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(b) Describe **two** drawbacks to the school of using a proxy server.

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- 4 An Internet Protocol (IP) network can be described in networking terms as unreliable and connectionless.

(a) State what is meant by unreliable in networking terms.

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..... [1]

(b) Describe what is meant by connectionless in networking terms.

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..... [2]

(c) State **one** reason why a connectionless method of communication is used.

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..... [1]



5 Circuit switching is one method of sending data over a network.

(a) Describe circuit switching.

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..... [3]

(b) State **one** benefit of using circuit switching to send data over a network.

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- 6** Master documents used in mail merge can include fields that are set up for manual completion by the user when the merge is started.

Justify the use of manual completion fields in mail merge master documents.

[5]



- 7 Performance Evaluation and Review Technique (PERT) charts are used to represent tasks and events in a project.

The table shows a list of tasks in a project to create a spreadsheet for analysing sales data. The headers in columns **C** and **D** in the table have **not** been identified.

activity (task) number	name of activity (task)	C	D
1	designing the spreadsheet		
2	inputting and testing the formulas		
3	creating pivot tables and charts		
4	deploying the spreadsheet for use		
5	writing documentation to support the spreadsheet		

A PERT chart of the project will be drawn using the information in the table.

- (a) Identify the headers needed at **C** and **D** before the PERT chart can be drawn.

C

D

[2]

The PERT chart for this project can be drawn as an activity-on-arrow (AOA) chart or as an activity-on-node (AON) chart.

- (b) Other than where the activities are shown on the PERT chart, describe how an AOA chart differs from an AON chart.

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[3]





8 User and marketing are types of documentation that are needed when a new software application is developed.

(a) Explain why user documentation is needed.

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(b) Explain why marketing documentation is needed.

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9 The colour depth of a bitmap image depends on the number of available bits used for each pixel.

(a) Describe how changing the colour depth of the pixels can alter the file size of a bitmap image.

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(b) Describe how changing the colour depth can affect the appearance of a bitmap image.

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10 Data mining can be used to extract information from large quantities of data.

(a) Explain why a supermarket uses data mining to extract information about its sales.

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(b) One drawback of data mining is that it requires skilled analysts.

Describe other drawbacks of data mining.

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