



Cambridge International AS & A Level

CANDIDATE
NAMECENTRE
NUMBER

--	--	--	--	--

CANDIDATE
NUMBER

--	--	--	--

INFORMATION TECHNOLOGY

9626/32

Paper 3 Advanced Theory

May/June 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 3D printing is used to create objects.

(a) Describe the process of 3D printing an object.

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... [4]

(b) Describe how 3D printing is used to improve healthcare.

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... [4]





2 Two characteristics of a network are its topology and its architecture.

(a) Describe what is meant by network topology.

.....

.....

.....

.....

.....

.....

.....

..... [3]

(b) Describe what is meant by network architecture.

.....

.....

.....

.....

.....

.....

.....

..... [3]



- DO NOT WRITE IN THIS MARGIN

DO NOT WRITE IN THIS MARGIN

DO NOT WRITE IN THIS MARGIN

DO NOT WRITE IN THIS MARGIN

DO NOT WRITE IN THIS MARGIN



- Analyse the use of **three** other selection tools that are provided by bitmap image-editing software.

..... [6

[8]

[8]



Describe the tasks that are carried out when creating a test plan.

[6]

- Compare, by commenting on the similarities and differences, activity-on-node and activity-on-arrow PERT diagrams.

..... [6]



8 Computer animation software can move and reshape objects.

(a) Describe how inbetweening (tweening) can be used to create the illusion of smooth movement of an object.

.....

.....

.....

.....

.....

..... [2]

(b) Morphing can be used to smoothly change a shape into another shape.

Describe how animation software uses pixel mapping to morph one shape into another.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... [4]





9 JavaScript statements can contain comparison operators such as `>` and `<`.

(a) Describe the purpose of comparison operators.

.....

.....

.....

.....

.....

..... [2]

(b) Explain the differences in function between the `===` and `!==` comparison operators.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... [4]

DO NOT WRITE IN THIS MARGIN

DO NOT WRITE IN THIS MARGIN

DO NOT WRITE IN THIS MARGIN

DO NOT WRITE IN THIS MARGIN

DO NOT WRITE IN THIS MARGIN





10 Blockchain technology is used as a distributed ledger in cryptocurrencies.

(a) Describe what is meant by a distributed ledger.

.....

.....

.....

.....

.....

..... [2]

(b) Describe **two** items of data that would be stored in a cryptocurrency's distributed ledger.

.....

.....

.....

.....

.....

..... [2]



[8]

[8]

Cambridge Assessment International Education is part of Cambridge Assessment. Cambridge Assessment is the brand name of the University of Cambridge Local Examinations Syndicate (UCLES), which is a department of the University of Cambridge.