



Cambridge International AS & A Level

CANDIDATE NAME					
CENTRE NUMBER			CANDIDATE NUMBER		

049475981

INFORMATION TECHNOLOGY

9626/32

Paper 3 Advanced Theory

February/March 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	Programmers can use	JavaScript to mak	e a web page react	when an HTML event occurs
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(a)	Des	scribe what is meant by an HTML event.
		[2]
(b)	Des	scribe the action that causes each of the following HTML events to start.
	(i)	onmouseover()
		[1]
	(ii)	onmouseout()
		[1]
	(iii)	onload()

2



Peer-to-peer networks are used for sharing files.

(a)	Describe the architecture of peer-to-peer networks.
	[2]
(b)	Describe the benefits and drawbacks of peer-to-peer networks.
	ro1



3

(a)	Describe what is meant by a virtual server.
	[2]
(b)	Describe a server farm.
	[2]
(c)	Describe one benefit to a company of using virtual servers.
(0)	Doosnibo ene bonom to a company of doing virtual converce.
	[1]
(d)	Describe one drawback to a company of using virtual servers.
` ,	
	[1]

5

In computer animation, frames are played in sequence to create the illusion that an object is moving.

(a) Describe what is meant by a frame in a computer animation.

(b) Explain how changes in the frame rate can affect how objects appear to move.



The Open Systems Interconnection (OSI) model for communications has seven layers that define the protocols to be used when devices communicate with each other.

6

Des	scribe	e the function of the presentation layer of the OSI model.
		[3]
Per	forma	ance Evaluation and Review Technique (PERT) charts are used when planning a project.
(a)	Des	scribe each of these components of a PERT chart.
	(i)	float
		[1]
	(ii)	milestone



(b) In a project, tasks are linked to each other by dependencies.

(i)	One type of dependency is when a task cannot start until other tasks are fully completed and finished.
	Describe two other types of dependency that can be found in a project.
	[2]
(ii)	Describe two uses of dependencies in PERT charts.
	[2]

8
Discuss the impact of technology enhanced learning on student achievement.

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Central bank digital base money is a type of digital currency issued by banks. 8

Describe the benefits and drawbacks of central bank digital base money.
[6]

- 9 The Internet of Things (IoT) connects devices together in a network.
 - (a) Describe how the IoT can be used in the homes of individuals.

	[4]
(b)	Describe the drawbacks of using the IoT in homes.
(b)	



10 A store has point-of-sale terminals at the checkouts in its departments.

It is using phased implementation to replace its point-of-sale terminals in every department.	
Discuss the advantages and disadvantages to the store of using phased implementation rat than direct changeover.	ther



All the images on a college website are vector graphics.

Analyse the use of vector graphics on a website.
[6

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