

Cambridge International AS & A Level

CANDIDATE NAME					
CENTRE NUMBER			CANDIDATE NUMBER		

9 2 2 8 5 4 3 8 0

INFORMATION TECHNOLOGY

9626/32

Paper 3 Advanced Theory

October/November 2020

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 90.
- The number of marks for each question or part question is shown in brackets [].

This document has **16** pages. Blank pages are indicated.

(a) Exp	plain the meanings of these terms when referring to JavaScript objects.	
(i)	string	
		[1]
(ii)	global	
(iii)	regular expression	[1]
(111)	regular expression	
		[1]
(iv)	operator	
		[1]
(v)	statement	
		[1]

(b)	Describe, in detail, the use of console.log() in JavaScript to output data for display.
	[4]

Routers are components that send internet protocol (IP) packets through computer networks.

2

a)	static routing tables
o)	dynamic routing tables
၁)	
၁)	
p)	
o)	
၁)	
0)	dynamic routing tables
၁)	dynamic routing tables
o)	dynamic routing tables
၁)	dynamic routing tables
o)	dynamic routing tables

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(a)	Describe the featu	ires of alpl	na and be	ta testi	ng.			
(b)	Explain why, apa	art from needed.	assisting					
(b)	Explain why, apa documentation is i	art from needed.	assisting					
(b)	Explain why, apa documentation is i	art from needed.	assisting					
(b)	Explain why, apa documentation is i	needed.		with	testing a			
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(b)	documentation is i	needed.		with	testing a			
(b)	documentation is i	needed.		with	testing a			

(c)	Explain why maintenance should be carried out on the DBMS.
	N

A store that sells and delivers furniture is installing a new ordering and booking computer system

	taken after the	-		
Give tw			d of implement	
-	 		 	
1			 	

	(c)	Give two reasons why direct changeover might not be a suitable method of implementing the new system.
		1
		2
		[2]
5	acc	online financial services company uses biometrics as part of its security measures to control ess to its services.
	(a)	Describe how fingerprints would be used to allow access to these services.
		F # 1
		[4]

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(b)	Evaluate, by weighing up the advantages and disadvantages, the suitability of biometrics in controlling access to company services.
	[8

•••••	 	 	 	 	 	 	

7	(a)	Explain how project management tools can be used when planning a project.
		[8]

(b)	Discuss the advantages and disadvantages of using online project management software.
	181

Describe how robotics are being used in space exploration.
[6]

9	Describe the use of fourth (4th) generation optical data storage systems to store and retrieve data
	91

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