

# Cambridge International AS & A Level

CANDIDATE NAME					
CENTRE NUMBER			CANDIDATE NUMBER		

# 0295123693

## INFORMATION TECHNOLOGY

9626/32

Paper 3 Advanced Theory

October/November 2021

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. Any blank pages are indicated.

1 Designers often use computer-aided design (CAD). Fig. 1.1 shows the design of a room.

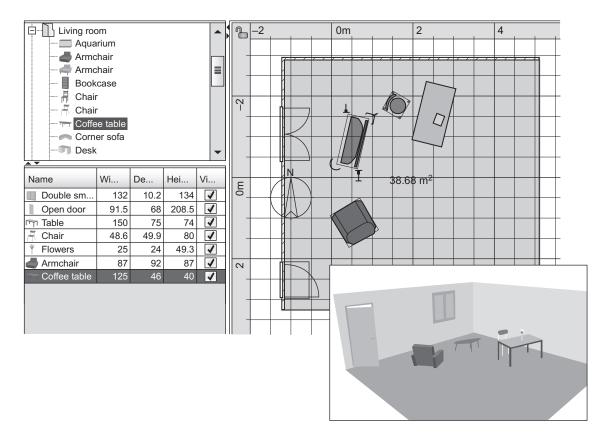


Fig. 1.1

Describe now the features of CAD software can be used to design the room.

•••••					
					[8
he error. Describe the i n the report.	tems of information	, including th	ose related to	the test plan, th	at should be included

Jav	aScript is a programming language used within HTML on web pages.	
Ехр	plain why it is considered good practice when coding in JavaScript to:	
(a)	place all declarations at the start of each script or function	
		[2]
(b)	initialise variables when first declared	
		[2]
(c)	avoid using eval () to run a string as code	
		[1]
(d)	always declare local variables.	
		[1]

Describe the	benefits and dra	awbacks of us	sing Bluetoo	oth to transfe	er the image	S.	

5	Robotic technology is used in the car manufacturing industry.
	Describe how robotics are used in the car manufacturing industry.
	[7]

Discuss the smartphones.	and	disadvantages	to	the	students	of	using	laptops	instead	of
	 					••••				
	 					••••				
	 									[8]

Airports and railway stations provide public WiFi access to the internet for their passengers. Using public WiFi may put the passengers' information at risk.
Explain how passengers can try to protect their information from security issues when using public WiFi.
[8]
[9]

8	Describe the benefits and drawbacks of using microblogs for social networking.
	[6]

Many wel	b pages no	w use vecto	or graphics	as well as	bitmap gra	phics for imag	ges and ico	ns.
		ng up the a ap graphics			lvantages,	the suitability	of vector	graphics
		• • • • • • • • • • • • • • • • • • • •						
• • • • • • • • • • • • • • • • • • • •								
								[8]

10	3D printing is a manufacturing method in which objects are made by fusing or depositing materials. It is used in the fields of medicine and manufacturing.								
	Discuss the benefits and drawbacks of using 3D printing.								
	[8]								

- " '						
Describe ho	w a network into	erface card ca	arries out its	role.		

	uevi	ices such as a 'satnav' in a delivery vehicle that assists the driver in finding destinations.
	(a)	Describe the benefits and drawbacks of the use of a satnav with GPS by the driver of a delivery vehicle.
		[6]
	(b)	Explain why the satnav may not be able to provide an accurate location.
	(2)	Explain why the damax may not be able to provide an accurate location.
		[2]

(c)	The global positioning system (GPS) can be used by satnavs in vehicles and by the militar	ſy.
	Describe three other ways that GPS may be used.	
		[3]

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