

Please check the examination details below before entering your candidate information

Candidate surname					Other names				
Centre Number					Candidate Number				

Pearson Edexcel International Advanced Level

Thursday 7 May 2026

Afternoon (Time: 2 hours)

Paper reference **WIT11/01**

Information Technology

International Advanced Subsidiary/ Advanced Level

UNIT 1

You do not need any other materials.

Total Marks

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided
– *there may be more space than you need.*

Information

- The total mark for this paper is 80.
- The marks for **each** question are shown in brackets
– *use this as a guide as to how much time to spend on each question.*
- Calculators are **not** allowed.

Advice

- Read each question carefully before you start to answer it.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ►

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Answer ALL questions. Write your answers in the spaces provided.

Some questions must be answered with a cross in a box ☒. If you change your mind about an answer, put a line through the box ☒ and then mark your new answer with a cross ☒.

1 Delores works for a company that provides each employee with digital devices.

(a) Delores has a company laptop.

(i) The laptop has both system and application software.

Complete the table by adding **one** tick (✓) in **each** row to show which software is system software and which is application software.

(2)

Software	System	Application
Word processing		
Firewall		
Device driver		
Spreadsheet		

(ii) Identify the type of software that allows users to examine, modify and share its source code.

(1)

- ☐ **A** Free software
- ☐ **B** Driver software
- ☐ **C** Patented software
- ☐ **D** Proprietary software



(b) Delores uses cloud storage for most documents.

(i) Give **one** reason why using cloud storage may save her company money.

(1)

(ii) Delores knows there are security risks associated with storing data in the cloud.

Describe **one** method she can use to keep her data safe from unauthorised access.

(2)

(iii) Delores is travelling to a remote island location to show a customer new research.

Security is one risk associated with storing data in the cloud.

Give **one other** reason Delores may decide **against** using cloud storage for this research.

(1)



(c) Delores belongs to an online professional community.

Explain **one** way she could use the community to help her in her professional life.

(2)

(d) Delores has a company mobile phone for business and personal use.

The mobile phone has location awareness.

Explain **one** benefit for Delores of having a device with location awareness activated.

(2)

(Total for Question 1 = 11 marks)



2 People use networks to complete tasks.

(a) Identify the type of signal that is transmitted over a fibre-optic medium.

(1)

- ☐ **A** Electricity
- ☐ **B** Light
- ☐ **C** Microwave
- ☐ **D** Radio

(b) Describe the difference between the internet and the world wide web.

(2)

(c) Describe the difference between **dynamic** and **static** IP addressing.

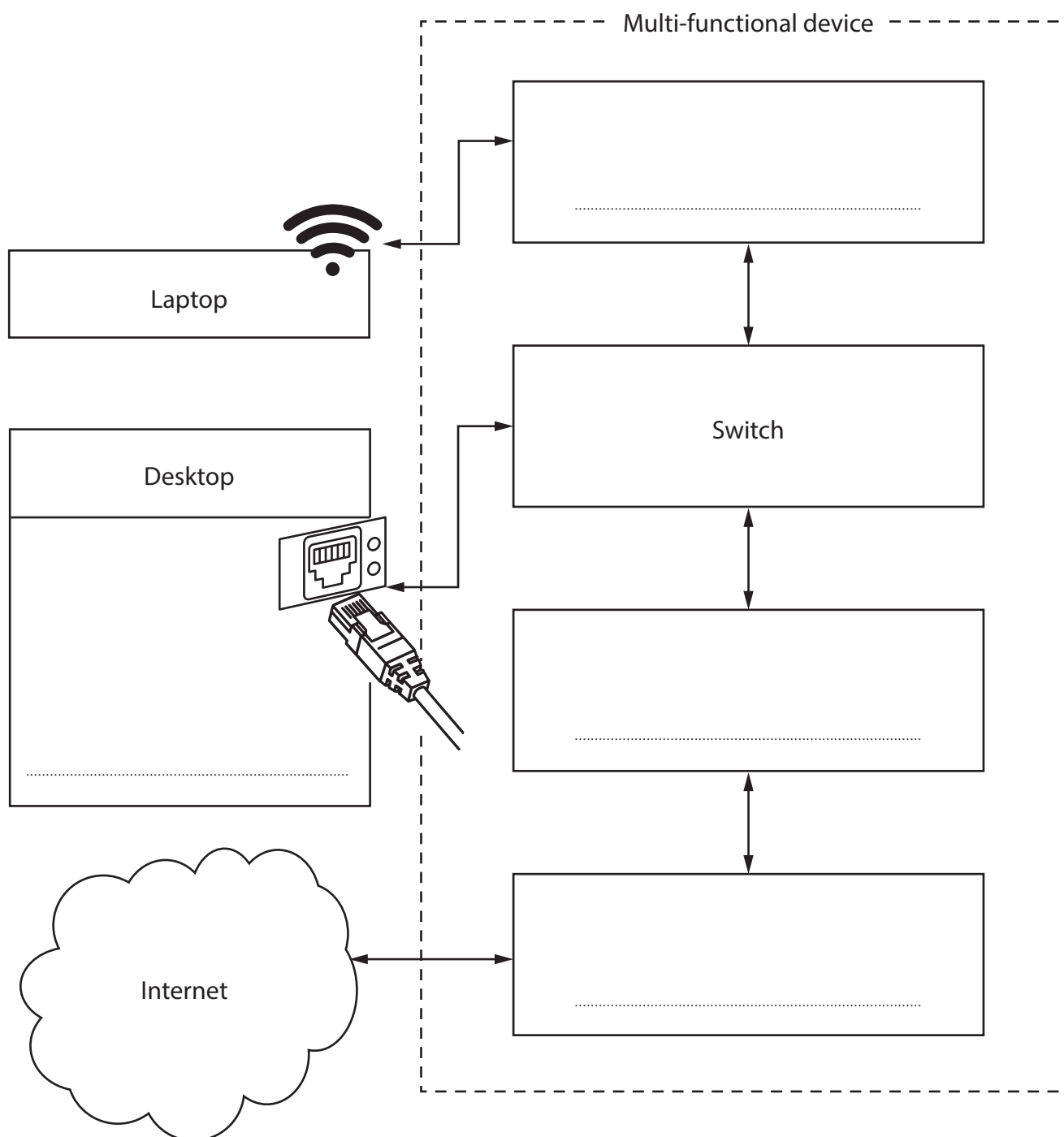
(2)



(d) A multi-functional device connects computers to the internet.

Complete the diagram to show the **four** missing components.

(4)



(Source: © Pearson Asset Library)

(e) Frida moves into a new apartment.

There is an open network in the building.

Discuss the characteristics of open networks, the security risks associated with using open networks and what Frida can do to lessen these risks.

(6)

(Total for Question 2 = 15 marks)



3 Information technology (IT) systems are made up of hardware and software.

(a) IT systems can be used to conserve energy.

Describe **one** way that an IT system can be used to control lights in a smart house.

(2)

(b) **Figure 1** shows part of a proposed English language keyboard.

←	↓	→	↑					F5	F6	F7	F8		Esc		F9	F10	F11	F12		F1	F2	F3	F4
Num Lock	/	*	-					~	!	@	#	\$	%	^	&	*	(	)	-	+	←		
7	8	9						Tab	Q	W	E	R	T	Y	U	I	O	P	{	}			
4	5	6	+					Caps Lock	A	S	D	F	G	H	J	K	L	:	"	;	,	Enter	
1	2	3	Enter	Insert	Home	Page Up		Shift	Z	X	C	V	B	N	M	<	>	?		Shift			
0	Ins	Del		Delete	End	Page Down		Ctrl	⌘	Alt								Alt	⌘	⬢	Ctrl		

Figure 1

The keyboard layout in **Figure 1** is not fit for purpose.

Give **one** improvement that could be made to the keyboard layout.

(1)



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(c) Complete the table to show the missing names or functions of the 7-layer OSI model for the **sending side** of a network communication. (4)

Layer	Function
Application	Implements protocols for specific applications, such as web browsers and email clients
Presentation	
	Establishes a connection between devices and keeps it open during data transmission
Transport	Converts data into segments and adds sequence numbers
	Converts segments into packets, adds source and destination addresses and determines the best route
Data link	
Physical	Converts frames into bits (0, 1) and places them on the physical medium, such as copper cable



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(d) Explain **one** impact the use of closed-circuit television (CCTV) could have on freedom of expression.

(2)

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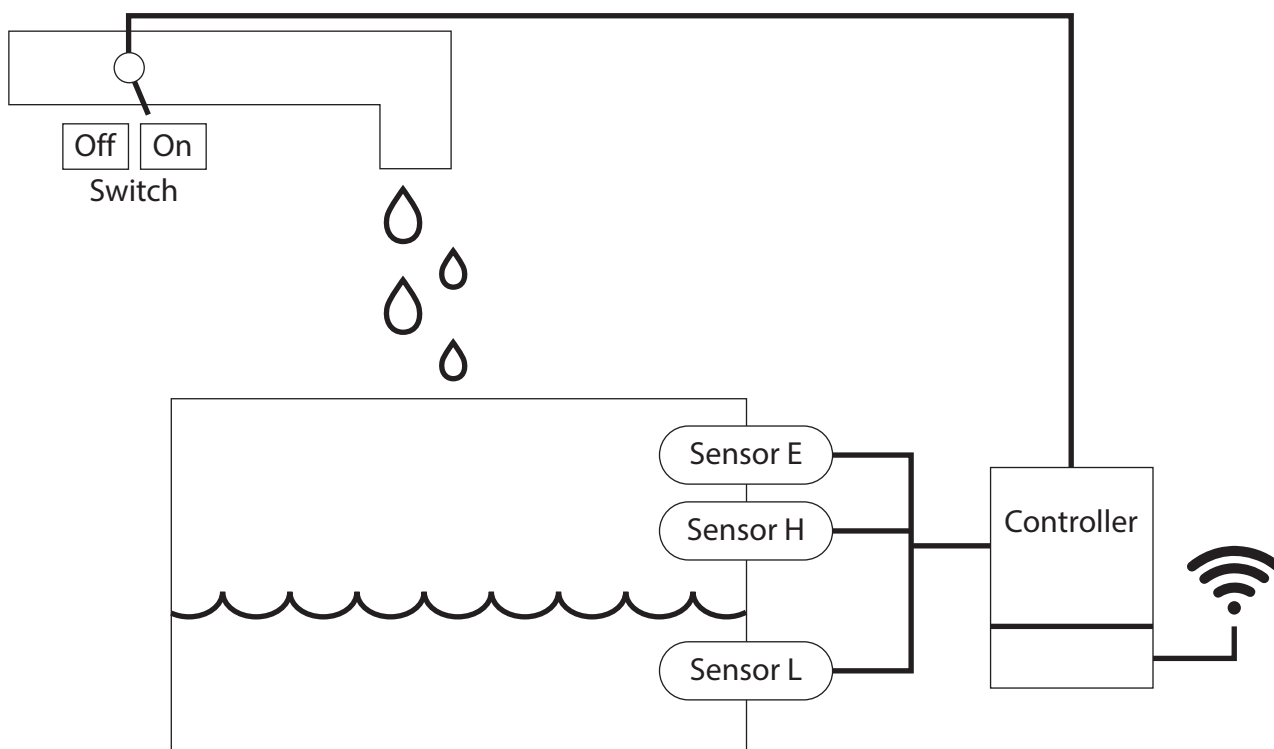
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QUESTION 3(e) BEGINS ON THE NEXT PAGE.



- (e) **Figure 2** is a diagram of an IT system that monitors and controls the water level in a swimming pool.



(Source: © Pearson Asset Library)

Figure 2

The water level is maintained automatically using sensors and a controller.

The system runs all the time.

Sensors register a **WET** state when they are wet and a **DRY** state when they are dry.

The water level must be maintained between Sensor L and Sensor H.

When Sensor L is **DRY**, the switch is turned to the On position. When Sensor H is **WET**, the switch is turned to the Off position.

In the event of Sensor E being **WET**, the switch is turned to the Off position and a text message is sent to the maintenance team. After sending the text message, the system waits for 10 minutes. After waiting, the steps are repeated from the beginning.

Draw a flowchart to represent this logic in the space on the next page.

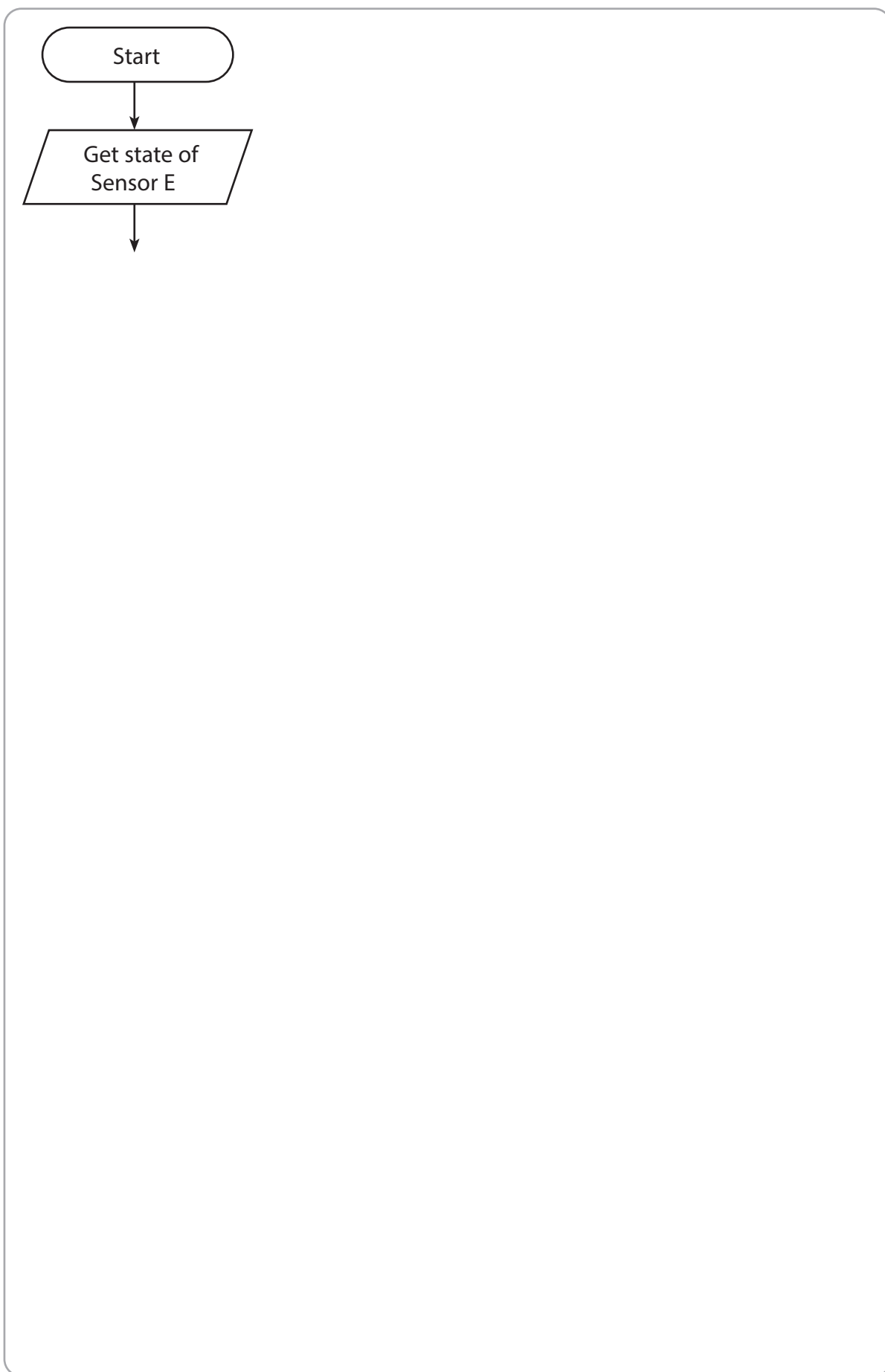
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(Total for Question 3 = 15 marks)



4 An online shop uses e-commerce technologies.

(a) Identify the correct description of information.

(1)

- ☐ **A** Data that has a number value
- ☐ **B** Data that has a type
- ☐ **C** Data that has a context
- ☐ **D** Data that has been validated

(b) Client-side scripting runs on a client machine. It is used to add interactivity to web pages and does not require a server.

Describe client-side scripting.

(2)

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- (c) The online shop sells custom-made window coverings. A customer chooses the fabric design. The fabric is made by a manufacturer. The fabric is made into window coverings by a maker who sews.

Figure 3 shows an extract from the database for custom-made window coverings.

tbl_type

typeID	typeName
T10	Pencil pleat curtain
T37	Eyelet curtain
T15	Roller blind

tbl_maker

makerID	makerName	makerPerHour
M34	Smith	21.75
M21	Jones	19.50
M74	Wilson	20.00

tbl_fabric

mfgName	mfgDesign	mfgPattern	mfgPriceMetre
Material Mart	8391	Stripes	32.00
Fabulous Fabrics	6823	Dots	22.00
Fabulous Fabrics	110	Squares	28.00
Material Mart	110	Paisley	30.00

tbl_order

orderNum	typeID	mfgName	mfgDesign	width	length	makerID
4509	T10	Material Mart	8391	162	228	M74
4492	T10	Fabulous Fabrics	6823	223	183	M21
4521	T15	Material Mart	110	115	150	M34
4494	T37	Material Mart	8391	117	137	M21

Figure 3

Complete the table to give the field names of the keys described.

(4)

Table	Key	Field names
tbl_type	Primary	
tbl_fabric	Primary	
tbl_order	Foreign composite	
tbl_order	Foreign not composite	

(d) The online shop also sells handmade cups.

Figure 4 shows an extract of the database cup table.

tbl_cups

mfgName	designName	stockPrice	numInStock
Ditty Dots	Blue Dots	13.00	3
Ditty Dots	Green Dots	11.00	7
Ditty Dots	Red Stripes	12.00	3
Ditty Dots	Yellow Stripes	13.00	6
Urban Jungle	Skates	12.00	9
Urban Jungle	Buses	13.00	8
Urban Jungle	Bicycles	13.00	11
Franklin	Sky	11.00	1
Nature Knows	Fields	14.00	8
Nature Knows	Flowers	12.00	10
Nature Knows	Mountains	11.00	6

Figure 4

Figure 5 shows some SQL commands and functions used to make queries.

AND	DROP TABLE	ORDER BY
BETWEEN	GROUP BY	SELECT
COUNT	INSERT INTO	SUM
CREATE TABLE	LIKE	UNION
DELETE	NOT	UPDATE
DISTINCT	OR	WHERE

Figure 5



Figure 6 shows the output of an SQL query to retrieve the manufacturer's name and the design name for any cups with fewer than 10 in stock, costing more than 12.00 each.

Figure 7 shows the output of an SQL query to determine the number of designs by each manufacturer.

mfgName	designName
Ditty Dots	Blue Dots
Ditty Dots	Yellow Stripes
Urban Jungle	Buses
Nature Knows	Fields

Figure 6

mfgName	Number of designs
Ditty Dots	4
Franklin	1
Nature Knows	3
Urban Jungle	3

Figure 7

Complete the table to show the SQL queries needed to produce the output in **Figure 6** and the output in **Figure 7**.

(4)

Figure 6	SELECT mfgName, designName FROM tbl_cups
Figure 7	SELECT mfgName, FROM tbl_cups

(Total for Question 4 = 11 marks)



5 Data is measured, transmitted and exchanged.

(a) Construct an expression to convert Q mebibytes to tebibytes.

(2)

(b) It takes 51 minutes to download a file at 71 megabits per second.

Construct an expression to show the size of the file in bytes.

(2)



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QUESTION 5(c) BEGINS ON THE NEXT PAGE.



(c) A restaurant takes online bookings.

Only registered customers can make a booking.

Customers register using an email address, a telephone number, a first name and a last name. Each registered customer has a unique identification number.

Customers do not need to be registered to check availability. They must provide a date, time and group size. The customer is informed if there is availability.

If there is availability, a registered customer can make a booking.

Figure 8 shows a data flow diagram for these processes.

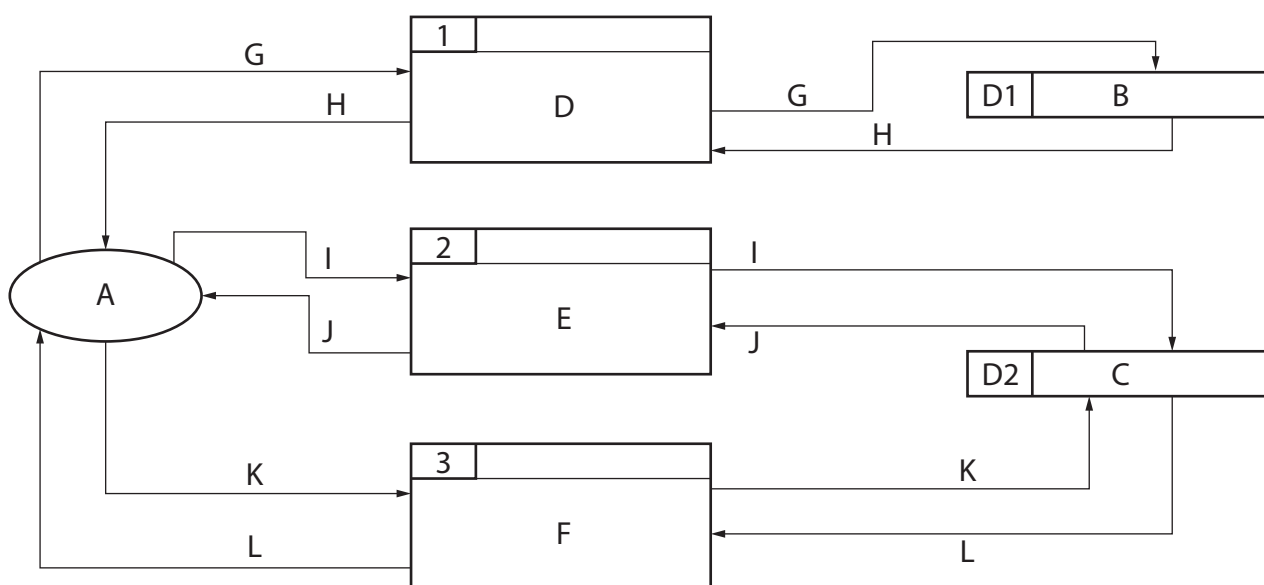


Figure 8

Complete the table to show the values for the labels in the data flow diagram.

(12)

Label	Value
A	
B	
C	
D	
E	
F	
G	
H	
I	
J	
K	
L	

(Total for Question 5 = 16 marks)

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6 A teacher gives music lessons to students.

The teacher travels to different schools on different days of the week.

Sometimes, the teacher has video conferences with parents.

The teacher records student performances.

The teacher wants to buy a new laptop computer.

Evaluate the secondary storage and media support of a laptop suitable for the teacher.

(12)

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(Total for Question 6 = 12 marks)

TOTAL FOR PAPER = 80 MARKS



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