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Turn over

Total



## **Answer ALL questions**

Leave blank

- 1. Data can be entered into a computer in several ways.
  - (a) Complete the table for the following input methods:

Barcode reading, Keyboard, OCR, OMR.

The first one has been done for you.

Explanation	Input method
Keys are pressed to enter data	Keyboard
Text is scanned directly into the computer	
Pencil marks on a grid are scanned directly into the computer	
Black and white stripes on food packaging are scanned into the computer	

**(3)** 

**(1)** 

(b) State **one** other method of data input.

Q1

(Total 4 marks)

(a)	Give <b>two</b> benefits of using an e-mail service compared with the postal service.
	Benefit 1
	Benefit 2
	(2)
	s possible to set up a video conference call where more than two people in different intries can discuss matters using a video link.
(b)	Give <b>two</b> reasons for holding a conference in this way instead of a face-to-face meeting.
	Reason 1
	Reason 2
	(2)
(c)	A 37/1
	A Webcam is one item of equipment that must be added to a pc to allow a video conference to take place. State <b>two</b> other pieces of equipment and state their use.
	conference to take place. State two other pieces of equipment and state their use.
	conference to take place. State <b>two</b> other pieces of equipment and state their use.  Equipment 1
	Conference to take place. State <b>two</b> other pieces of equipment and state their use.  Equipment 1  Use  Use  Use
	Conference to take place. State <b>two</b> other pieces of equipment and state their use.  Equipment 1  Use  Equipment 2  Use  (4)
	Conference to take place. State <b>two</b> other pieces of equipment and state their use.  Equipment 1  Use  Use  Use
	Conference to take place. State <b>two</b> other pieces of equipment and state their use.  Equipment 1  Use  Equipment 2  Use  (4)
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	Conference to take place. State <b>two</b> other pieces of equipment and state their use.  Equipment 1  Use  Equipment 2  Use  (4)

3. Data stored on tape takes more time to access than the same data stored on a CD-ROM.

(a) State why this is so.

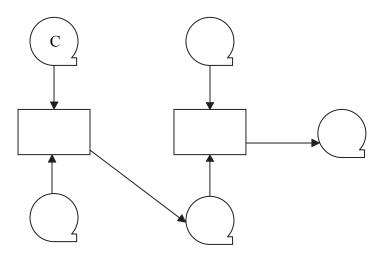
(1)

(b) Give **one** example of where tape storage would be used in preference to CD-ROM storage.

(1)

The flow chart shows how file generations can be used to back up a file.

(c) Use the letters A to G to label the flow chart boxes. Letters can be used once, more than once, or not at all. The first one has been completed for you.



- A. Merge
- B. Son File
- C. Transaction File
- **D.** Father File
- E. Print File
- F. Customer File
- G. Grandfather File

**(6)** 

Q3

(Total 8 marks)

Leave blank

**4.** A school library uses an information system to store details of books borrowed by students. Part of the student table is shown.

Stud_num	Name	Date due	ISBN	Tutor
OXZ3564	Hawkins	21/09/2008	0-7487-6367-8	PA
WRT1458	Singh	23/02/2008	0-7847-5747-3	DB
ASD5689	Smith	05/06/2008	0-6581-2543-9	MT
QWE1234	Ibell	14/05/2008	0-2591-2215-7	VG

Each book in the library has a bar code containing its ISBN.

- (a) When data is entered it is validated by software.
  - (i) Choose a suitable validation check for the Stud\_num field and describe how it would work.

	Validation Check
	How it works
	(2)
(ii)	Choose a different suitable validation check for the Date due field and describe how it would work.
	Validation Check

(b)	Explain, with an example from the table, why data which was found to be valid this program might still be wrong.	y

Q4

**(2)** 

**(2)** 

(Total 6 marks)

**7.** Peter runs a wholesale garden business. Peter uses a spreadsheet to help with the business accounts. Part of the spreadsheet he uses is shown.

	А	В	С	D	E		
1	Sales – May 2009						
2							
3	Customer	<b>Total Sales</b>	Tax	<b>Amount Due</b>			
4	Flowers R Us	£4,392.00	£768.60	£5,160.60			
5	Red Roses Nursery	£8,752.00	£1,531.60	£10,283.60			
6	Bloomsbury	£3,325.00	£581.88	£3,906.88			
7	Garden Delights	£11,569.00	£2,024.58	£13,593.58			
8	Valley Gardening Services	£23,698.00	£4,147.15	£27,845.15			
9	Sensational Blooms	£5,000.00	£875.00	£5,875.00			
10	Flowers for All	£12,345.00	£2,160.38	£14,505.38			
11							

A cell reference consists of a letter and a number; for example, the word Customer is in cell A3.

(a) State the cell reference for the customer "Red Roses Nursery".
(1)
Peter's customers must pay a tax of 17.5% on all purchases.
(b) Give a formula that could be used in cell C4 to calculate the amount of tax to be paid.
(2
(c) Give a formula that could be used in cell D4 to calculate the Amount Due.
(1)
(d) Explain how this formula could be put into the cell range (D5: D10).

	(e) Explain how Peter could use the spreadsheet to find the largest amount of money
	spent by a customer.
Q	(2)
	(Total 8 marks)
	Backing up data means taking a copy of the data so that it can be restored if required. A zip drive is a device that is suitable for backing up data.
	(a) State <b>two</b> other devices that could be used for this purpose.
	Device 1
	Device 2
	(2)
	Several factors need to be carefully considered when a backup procedure is designed. One factor is the management of the backup process, such as who will label the backups
	Several factors need to be carefully considered when a backup procedure is designed. One factor is the management of the backup process, such as who will label the backups.  (b) State <b>three</b> other factors that should be considered when backing up data. Give a reason in each case.
	factor is the management of the backup process, such as who will label the backups.  (b) State <b>three</b> other factors that should be considered when backing up data.
	factor is the management of the backup process, such as who will label the backups.  (b) State <b>three</b> other factors that should be considered when backing up data. Give a reason in each case.
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	factor is the management of the backup process, such as who will label the backups.  (b) State <b>three</b> other factors that should be considered when backing up data.  Give a reason in each case.  Factor 1  Reason 1
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	factor is the management of the backup process, such as who will label the backups.  (b) State three other factors that should be considered when backing up data.  Give a reason in each case.  Factor 1  Reason 1  Factor 2  Reason 2
Q	factor is the management of the backup process, such as who will label the backups.  (b) State <b>three</b> other factors that should be considered when backing up data. Give a reason in each case.  Factor 1  Reason 1  Factor 2  Reason 2

Leave blank WorldTravel.net accepts holiday bookings to all parts of the world via the Internet. Customers must enter the data, some of which is shown below. A screen is then displayed so that the data can be accepted or amended. Customer name Customer telephone number Destination Number of people travelling. Design a suitable user friendly screen for this purpose. Include three other data items that would be needed. **Q9** 

(Total 7 marks)

(ii) Describe one effect that this has had on employers.  (2)  (b) (i) Give one example of where a job role has changed through the use of ICT.  (1)  (ii) Describe one effect that this has had on employees.  (2)  (1)  (2)  (1)  (1)  (2)  (1)	(a) (i)	Give <b>one</b> example of where the location of work has changed through the use of ICT.
(b) (i) Give <b>one</b> example of where a job role has changed through the use of ICT.  (ii) Describe <b>one</b> effect that this has had on <b>employees</b> .  (2)		
(b) (i) Give <b>one</b> example of where a job role has changed through the use of ICT.  (1)  (ii) Describe <b>one</b> effect that this has had on <b>employees</b> .	(ii)	Describe <b>one</b> effect that this has had on <b>employers</b> .
(ii) Describe <b>one</b> effect that this has had on <b>employees</b> .		(2)
(ii) Describe <b>one</b> effect that this has had on <b>employees</b> .  (2)	(b) (i)	Give <b>one</b> example of where a job role has changed through the use of ICT.
(2)		
(2)	(ii)	Describe <b>one</b> effect that this has had on <b>employees</b> .
(Total 6 marks)		
		(Total 6 marks)

				(2)
(b) Virtual re reality is	ality is a form of compused.	outer simulation.	Give an example of	
				(1)
(c) Explain h	ow virtual reality simu	lations differ fron	n other computer sim	ulations.
				(2)
			(T	otal 5 marks)

Leave	
blank	

12. All students at a college have to pay a fee of up to £150.00. The table forms part of the college's new administration system.

Student ID	Surname	Initials	Date of Birth	Fee (£)
AHM04025	Ahmed	S	21/09/93	35.00
FAC08036	Facciuto	L	01/08/91	129.00
LAN06031	Lanfear	MR	25/06/92	29.39
LAN06031	Langston	P	04/02/91	51.67
WIL08051	Wilson	JIF	30/07/92	119.25

					129.00	
	LAN06031	Lanfear	MR	25/06/92	29.39	
	LAN06031	Langston	P	04/02/91	51.67	
	WIL08051	Wilson	JIF	30/07/92	119.25	
(i)		• •		ch of the followi		(1)
(ii)	) Date of Birth					(1)
(iii	i) Fee (£)					(1)
			avatam vvit	h tymical data o	vetrama data a	
da		ample of each	form of tes	st data for the Fe	e field.	
da	ta. Give <b>one</b> exa	ample of each	form of tes	• •	e field.	
da Ty	ta. Give <b>one</b> exa	ample of each	form of tes	st data for the Fe	e field.	
da Ty Ex	ta. Give one example one data	ample of each	form of tes	st data for the Fe	e field.	
da Ty Ex	ta. Give one example one data	ample of each	form of tes	st data for the Fe	e field.	

•	Feature 1	
ŀ	Explanation	
ŀ	Feature 2	
I	Explanation	
ŀ	Feature 3	
ŀ	Explanation	
	(Total 6 marks)	
ľ	A college wishes to show parents how examination results have improved over the previous five years. The Principal has suggested using tables, charts, or multi-media to present this information. Each of these methods has advantages over the others.	
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15.	E-n	nail has improved communication within organisations. Describe the steps used to	Leave
	car	ry out each of the following tasks efficiently.	
	(a)	Pass on to the sales manager an e-mail message that you have received from a customer.	
		Step 1	
		Step 2(2)	
	(b)	Inform all managers in the organisation about the time and date of a meeting.	
	(-)		
		Step 1	
		Step 2(2)	
	(c)	Send the photograph of a new product to the publicity department.	
		Step 1	
		Step 2	
		(2)	Q15
		(Total 6 marks)	
		TOTAL FOR PAPER: 100 MARKS	
		END	



