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Instructions to	Candidates									10	
In the boxes above	e, write your centre nu			idate 1	numbe	r, you	r surn	ame,	nitials and signatur	re. 11	
Answer ALL the	we the correct question questions. Write your	answe		the sp	aces p	rovide	d in t	his qu	estion paper.	12	
Do not use pencil.	. Use blue or black in	k.								13	
Information for				•			•		1.1 1 (4)	14	
There are 14 ques	ividual questions and tions in this question is in this question pap	paper.	The t	total n	ark fo	or this	paper	round is 10	1 brackets: e.g. (2).		
Advice to Cand	idates										
	of the importance of in your answers wher					ıl pres	entati	ion in	your answers.		

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Turn over

Total



Answer ALL questions

1. (a) Name the devices A, B, C and D using words from the list.

hard drive

keyboard

modem

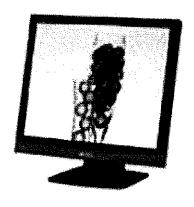
mouse

printer

plotter

scanner

monitor

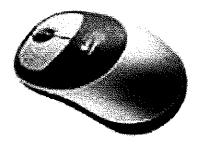




A

B





C

D

(4)

(b) Two of the devices are input devices. Write down the names of the input devices.

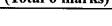
Input device 1

Input device 2

(2)

Q1

(Total 6 marks)



2. A student is using software to help with several tasks for the school play.

The choice of software is:

- A Browser
- B Control Software
- C Database
- D Desktop publisher
- E Spreadsheet

Write the letter of the software that the student should use for each task in the table. The first one has been done for you.

Task	Software
Keeping a list of costumes	C
Keeping the financial accounts	
Obtaining music files from the Internet	
Creating a poster to advertise the play	
Control of lighting displays	

Q2

(Total 4 marks)

(a)	State what is meant by:
()	(i) a field,
	(i) a field,
	(1)
	(ii) a record,
	(1)
	(iii) a table.
	(1)
(0)	The customer number is part of the database. It is used as a key field. State why a key field is necessary.
	(1)
(c)	Give three benefits to the company of using a computer system, rather than a manual system, to store customer information.
	Benefit 1
	Benefit 2
	······
	Benefit 3
	Benefit 3

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4. A school uses a spreadsheet to work out the profit from food sold in the snack bar. Part of the spreadsheet is shown below.

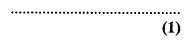
	Α	В. Т.	С	D fin	E a	juma F iliphie	G
1	Snack	Cost per item	Number sold	Total Cost	Selling price	Total income	Profit
2	Toast	£0.10	200	£20.00	£0.20	£40.00	£20.00
3	Pizza	£0.42	125	£52.50	£0.75	£93.75	£41.25
4	Burger	£0.86	70	£60.20	£1.20	£84.00	£23.80
5	Crisps	£0.45	60	£27.00	£0.54	£32.40	£5.40
6	Apple	£0.12	20	£2.40	£0.18	£3.60	£1.20
7	Biscuit	£0.15	80	£12.00	£0.20	£16.00	£4.00
8							
9						Total profit	£95.65
10						Target profit	£100.00
11					ì	, , , , , , , , , , , , , , , , , , ,	

(a) State the contents of cell Co

(1)

- (b) Select the formula used to give the Profit in cell G2.
 - A F2 * C2
 - B F2 D2
 - \mathbf{C} D2 F2
 - **D** D2 * E2

- (c) Select the formula that would give the Total Profit in cell G9.
 - A SUM (C2:G2)
 - B TOTAL (G1:G8)
 - \mathbf{C} G2 + G3 + G4 + G5 + G6 + G7
 - **D** SUM (B2:G2)



(d) The cost of the burger in cell B4 is wrong and will be changed to £0.76. Give **one** other cell in Row 4 that would change as a result of this.

(1)

	(e)	One advantage of using spreadsheets is automatic recalculation of cell values. Give two other advantages of using spreadsheets compared to using a manual system.	Leave blank
		Advantage 1	
		Advantage 2	
		(2)	Q4
		(Total 6 marks)	
5.	Αc	ompany uses a computer system to calculate its payroll.	
	(a)	Verification is used to check that data has been copied correctly from source documents to the computer files.	
		Give two different types of verification check.	
		Check 1	
			-
		Check 2	
		(2)	
	(b)	Validation is used to check that data entered into the computer is sensible and reasonable. One item of data is EMPLOYEE NUMBER .	
		Give two types of validation check that could be carried out on the EMPLOYEE NUMBER.	
		Check 1	
		Check 2	
		(2)	Q5
		(Total 4 marks)	

6.	 Ben and Shazzia own a business selling ICT equential control. Two fields in the database are stock numbers. 	<u> </u>	Leave blank
	(a) List three other fields that would be in the da	tabase.	
	Field 1		
	Field 2		
	Field 3	(3)	
	(b) Give two reasons why Ben and Shazzia use b	ar codes on their goods.	
	Reason 1		
	Reason 2		
			Q6
		(Total 5 marks)	

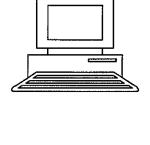
M 2 9 8 9 0 A 0 9 2 0

- 8. Two network topologies are star and bus.
 - (a) Here is a star network. Clearly label the file server and draw lines to represent the network cables.











(2)

(b) Here is a bus network. Clearly label the file server and draw lines to represent the network cables.











(2)

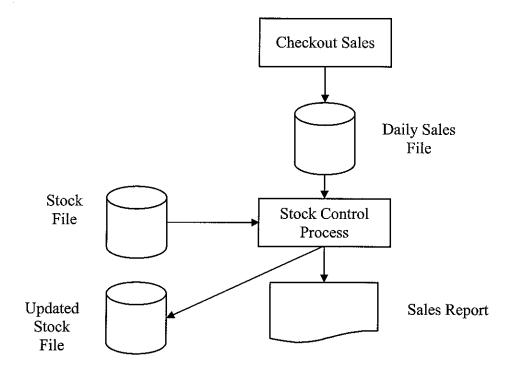
(a)	Describe two benefits that a network of computers provides, compared to a number	blank
(6)	of stand-alone computers.	
	Benefit 1	
	Benefit 2	
	(4)	
(d)	Describe how a Local Area Network (LAN) differs from a Wide Area Network (WAN).	
	(2)	Q8
	(Total 10 marks)	
	e following list shows tasks that can be performed on a computer. Three of the tasks are formed by the operating system. Identify these tasks from the list below.	
A	Output control	
B C	Resource allocation Word-processing	
D	Finding a database record	
Ē	Input control	
F	Editing a photograph	
Tas	k 1	
Tas	ık 2	
Tas	ık 3	Q9
	(Total 3 marks)	



A secondary school teacher giving a copy of a 30-kilobyte computer program to members of her computing class.
Storage medium
Reason
A publisher distributing a 500-megabyte electronic encyclopaedia.
Storage medium
Reason
A school computer technician backing up a 100-gigabyte hard disk on a network f server.
Storage medium
Reason

11.		ompany provides all new employees with a booklet giving guidelines for working with aputers.	
	(a)	State, giving a reason in each case, three health and safety guidelines for PC users.	
		Guideline 1	
		Reason 1	
		Guideline 2	
		Reason 2	
		Guideline 3	
		Reason 3	
		(6)	
	(b)	State, giving a reason in each case, two guidelines for protecting company data held on computers from deliberate theft.	
		Guideline 1	
		Reason 1	
		Guideline 2	
		Reason 2	
		(4)	Q11
		(Total 10 marks)	

12. The diagram shows part of a supermarket stock control system.



(a) In the diagram, the Daily Sales File is the **transaction file** and the Stock File is the **master file**. Explain what is meant by the terms:

(i)	transaction file	<u></u>
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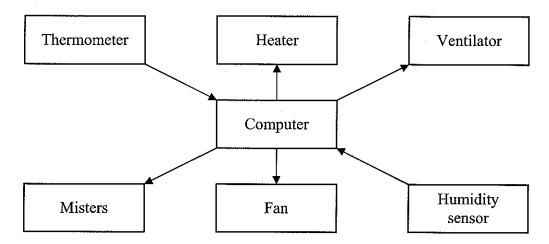
(2)

(ii)	master file	
(ii)	master file	

***************************************	•••••••••••••••••••••••••••••••••••••••

13. The head gardener looks after a large greenhouse and its control system. A computer controls the temperature and humidity in the greenhouse.

The temperature and humidity in the greenhouse can be controlled by heaters, cooling fans, misters that spray water and ventilators.



(a) Complete the table below.

	Temperature	Humidity
Too biob	Switch off heaters.	Switch off misters.
Too high	Switch on cooling fans.	Switch on ventilators.
T 1		Switch on misters.
Too low		Switch off ventilators.

(2)

The computer controls the equipment by sending a digital signal. A 1 turns the equipment on and a 0 turns it off.

(b) Complete the table below to show the digital signal sent to the equipment if the temperature and humidity in the greenhouse are too high.

Heater	
Cooling fan	
Mister	
Ventilator	

(2)



for	e college librarian has called in a systems analyst to advise on a new computer system the library. Describe three activities the analyst would carry out at each of the following ges.	Le bla
(a)	Analysing the current system.	
	(3)	
(b)	Designing the new system.	
	(3)	
(c)	Implementing the new system.	
	(3)	01/
	(Total 9 marks)	Q14
	TOTAL FOR PAPER: 100 MARKS	
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