

SECTION A

Answer ALL questions.

For each question, choose an answer A, B, C or D and put a cross in the box. Mark only one answer for each question. If you change your mind, put a line through the box and then mark your new answer with a cross.

eg: Mark the box like this:

<input type="checkbox"/> A
<input type="checkbox"/> B
<input checked="" type="checkbox"/> C <i>This shows your answer</i>
<input type="checkbox"/> D

If you change your mind, mark the boxes like this:

<input checked="" type="checkbox"/> A <i>This shows your final answer</i>
<input type="checkbox"/> B
<input checked="" type="checkbox"/> C <i>First answer</i>
<input type="checkbox"/> D

1. Operating systems that can run more than one program at a time are known as

- A multi tasking
- B utility programs
- C networking
- D multi system

(Total 1 mark)

Q1

2. The Act introduced to make hacking illegal is the

- A Data Protection Act
- B Copyright, Designs and Patents Act
- C Computer Misuse Act
- D Hacking Protection Act

(Total 1 mark)

Q2

3. The correct order for the data capture process is

- A collection, preparation, input, verification
- B verification, preparation, collection, input
- C preparation, input, collection, verification
- D collection, input, preparation, verification

(Total 1 mark)

Q3



4. Which one of these is **not** an optical storage medium?

- A CD-R
- B CD-ROM
- C USB pen drive
- D DVD

(Total 1 mark)

Q4

5. ROM and RAM are both types of computer memory. Identify the correct row in the table

	ROM	RAM
<input type="checkbox"/> A	volatile memory	volatile memory
<input type="checkbox"/> B	volatile memory	permanent memory
<input type="checkbox"/> C	permanent memory	volatile memory
<input type="checkbox"/> D	permanent memory	permanent memory

(Total 1 mark)

Q5

6. Customers buying goods on the internet can pay by credit card. The process of transferring money in this way is known as

- A EFT
- B COM
- C BACS
- D FAST

(Total 1 mark)

Q6

7. Which one of these is **not** an operating system utility program?

- A backup
- B print manager
- C file renaming
- D file saving

(Total 1 mark)

Q7



8. Pilots are trained to fly aeroplanes using flight simulators. Which of the statements is **not** true for a flight simulator?

- A a variety of weather conditions can be simulated
- B it is cheaper than flying real aeroplanes
- C all conditions can be simulated accurately
- D trainees are put in less danger

Q8

(Total 1 mark)

9. A school has a filtering system on its network. They have done this to prevent

- A pupils accessing inappropriate sites
- B hackers gaining access to pupils' work
- C viruses entering the system
- D pupils e-mailing each other

Q9

(Total 1 mark)

10. The factors that should be considered when establishing the backup strategy for a computer system are

- A frequency, quality of data, media, time needed
- B frequency, quality of data, quantity of data, media
- C frequency, quantity of data, media, time needed
- D quality of data, quantity of data, media, time needed

Q10

(Total 1 mark)

11. The term used to describe a cell reference which stays the same as it is copied down a spreadsheet column is

- A relative
- B fixed
- C absolute
- D formatted

Q11

(Total 1 mark)



12. Bitmap and vector are both types of graphics files.
Identify the row in the table that correctly describes a feature of each.

	Bitmap	Vector
<input type="checkbox"/> A	rescaling produces jagged images	large file size
<input type="checkbox"/> B	small file size	rescaling produces jagged images
<input type="checkbox"/> C	rescaling produces jagged images	small file size
<input type="checkbox"/> D	large file size	rescaling produces jagged images

Q12

(Total 1 mark)

13. The term algorithm is used to describe

- A a series of commands written to solve a problem
- B the main aspects of systems analysis
- C a function of database software
- D a system flowchart

Q13

(Total 1 mark)

14. Which one of these is **not** a role of the central processing unit?

- A storing data
- B handling control signals
- C performing arithmetic operations
- D monitoring system performance

Q14

(Total 1 mark)

15. The ALU is part of the central processing unit.
ALU stands for

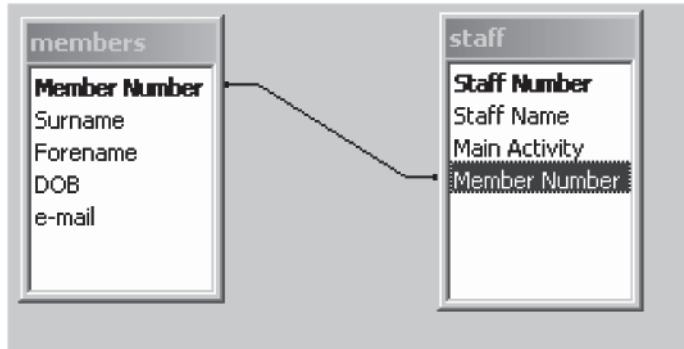
- A Arithmetic and Language Unit
- B Analogue and Logic Unit
- C Analogue and Language Unit
- D Arithmetic and Logic Unit

Q15

(Total 1 mark)



Use the information in this diagram to answer Questions 16 and 17.



16. The diagram shows a database with two linked tables.
This type of database is

- A relative
- B relational
- C flat file
- D structured

(Total 1 mark)

Q16

17. The Member Number is the primary key in the members table.
The correct term for the Member Number in the staff table is

- A secondary key
- B alien key
- C subsidiary key
- D foreign key

(Total 1 mark)

Q17

18. The address of a web page is its URL.
URL stands for

- A Uniform Resource Locator
- B Unidentified Resource Locator
- C Uniform Reliability Locator
- D Unique Resource Locator

(Total 1 mark)

Q18



19. Here are three statements about check digits.

- 1 A check digit is produced by performing calculations on the original number.
- 2 The check digit is always added to the end of the original number.
- 3 Check digits can be used in validation.

The correct statements are

- A 1 and 3 only
- B 1, 2 and 3
- C 1 and 2 only
- D 2 and 3 only

(Total 1 mark)

Q19

20. The main factors governing the power of a computer are

- A the type of processor, the clock rate and the amount of RAM
- B the type of processor, the clock rate and the screen resolution
- C the clock rate, the amount of RAM and the type of operating system
- D the clock rate, the amount of RAM and the screen resolution

(Total 1 mark)

Q20

TOTAL FOR SECTION A: 20 MARKS



SECTION B

1. The details of stocks of standard furniture are held in the **STAND-FURN** spreadsheet.

Part of the **STAND-FURN** spreadsheet is shown.

	A	B	C	D	E	F	G	H	I
1	STOCK NUMBER	STOCK NAME	OPENING STOCK	CLOSING STOCK	COST PRICE	PROFIT (10%)	SELLING PRICE	RE-ORDER LEVEL	RE-ORDER
2	YBC600	York 600cm Bookcase	57	22	£345.00	£34.50	£379.50	35	Y
3	YBC500	York 500cm Bookcase	49	32	£124.00	£12.40	£136.40	35	Y
4	CWR600	Chester 600cm Wine Rack	65	50	£229.00	£22.90	£251.90	35	N
5	CCB600	Chester 600cm Cabinet	68	35	£425.00	£42.50	£467.50	35	N
6	YWR500	York 500cm Wine Rack	143	57	£189.00	£18.90	£207.90	35	N
7	CCB500	Chester 500cm Cabinet	27	22	£367.00	£36.70	£403.70	35	Y

(a) The **SELLING PRICE** is calculated by adding the **PROFIT** to the **COST PRICE**.
The **PROFIT** is 10% of the **COST PRICE**.

(i) Write down the formula used in cell F3 to calculate the **PROFIT** for a York 500cm Bookcase.

.....
(1)

(ii) Write down the formula used in cell G3 to calculate the **SELLING PRICE** for a York 500cm Bookcase

.....
(1)

(b) Stock will need to be re-ordered when **CLOSING STOCK** is less than the **RE-ORDER LEVEL**.

Formulae have been entered in the **RE-ORDER** column to show whether an item needs re-ordering.

Write down the formula used in cell I2.

.....
.....
(3)



- (c) The company would like to create a bar chart showing CLOSING STOCK for each item of standard furniture.

Write down the instructions to create this bar chart.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(6)

(Quality of Written Communication: 3 marks)

(Total 14 marks)

QB1

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2. 'Pineforyou' manufactures furniture designed to suit the individual requirements of customers.

(a) (i) Identify the type of specialised software that 'Pineforyou' would use to create these designs.

.....
(1)

(ii) Give **three** features of the software that would help in the design of the furniture.

1

.....

2

.....

3

.....
(3)

(b) Identify **three** pieces of hardware that the company could purchase to make sure that full advantage is taken of this specialised software.

1

2

3

(3)

(Total 7 marks)

QB2



3. Customer details are held in the **CUSTOMER-FILE** database.

Part of this file is shown.

REF. NO.	SURNAME	TITLE	INITIAL	POST CODE	LAST PURCHASE DATE
06086	Jones	Mr	S	SR4 9JK	01/02/07
98103	Sangha	Mr	G	NE24 6HY	05/06/05
97065	Durrán	Mrs	E A	NS54 81H	06/12/08
02105	Courr	Mr	B	DH2 7HG	16/10/08
05076	Jackson	Miss	G	SR6 9PF	06/12/06
97067	Barkley	Miss	D G	ST56 9JH	21/09/07
99043	Vandber	Mrs	K H	DS21 8TS	19/01/09
98120	McKay	Mr	M	NE30 7HA	30/11/07

(a) Validation rules have been set on the REF. NO. field.

(i) Explain the term *validation*.

.....

(2)

(ii) A presence check makes sure that data is entered in the REF. NO. field.

Name **three** other types of validation check that could be used for the REF. NO. field.

For each, give an example of how it would be applied.

Check 1

Example

.....

Check 2

Example

.....

Check 3

Example

.....

(6)



(b) 'Pineforyou' wants to produce a list showing **only** the customers who have bought furniture in 2008.

Write down the instructions to produce this list.

.....
.....
.....
.....
.....

(3)

QB3

(Total 11 marks)

4. 'Pineforyou' has installed a Local Area Network (LAN) with workstations in all areas.

(a) Give **three advantages** of using a LAN rather than stand-alone machines.

1
.....
2
.....
3
.....

(3)

(b) Give **two disadvantages** of using a LAN rather than stand-alone machines.

1
.....
2
.....

(2)

QB4

(Total 5 marks)



5. 'Pineforyou' has decided to update its website. The website should be easy for customers to navigate.

Give **three** features that should be included to make navigation easier. For each feature explain how it makes the website easy to navigate.

Feature

Explanation

.....

.....

Feature

Explanation

.....

.....

Feature

Explanation

.....

.....

(Total 6 marks)

QB5

TOTAL FOR SECTION B: 43 MARKS
TOTAL FOR PAPER: 63 MARKS

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