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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. Which **one** of these uses magnetic storage?

- A CD ROM
- B DVD
- C Hard disk
- D CD RW

(Total 1 mark)

Q1

2. RAM memory is volatile.

Data in RAM is:

- A stored permanently
- B saved when the computer is switched off
- C stored externally
- D lost when the computer is switched off

(Total 1 mark)

Q2

3. Which **one** of these is a principle of the Data Protection Act?

- A data cannot be kept for more than one year
- B data should be kept secure
- C data should not be shown to anyone
- D data may be given out for marketing purposes

(Total 1 mark)

Q3



<p>4. A series of commands developed to solve a problem is:</p> <ul style="list-style-type: none"> <input type="checkbox"/> A an algorithm <input type="checkbox"/> B a decision <input type="checkbox"/> C a process <input type="checkbox"/> D a formula <p style="text-align: right;">(Total 1 mark)</p>	<p>Leave blank</p> <p style="text-align: center;">Q4</p> <div style="border: 1px solid black; width: 20px; height: 20px; margin: 0 auto;"></div>
<p>5. Automatic backup is a type of:</p> <ul style="list-style-type: none"> <input type="checkbox"/> A security software <input type="checkbox"/> B application package <input type="checkbox"/> C communication software <input type="checkbox"/> D operating system utility <p style="text-align: right;">(Total 1 mark)</p>	<p style="text-align: center;">Q5</p> <div style="border: 1px solid black; width: 20px; height: 20px; margin: 0 auto;"></div>
<p>6. In a database 'Newcastle' is encoded as 'NCL'.</p> <p>One reason for encoding the data is that it:</p> <ul style="list-style-type: none"> <input type="checkbox"/> A cannot be read by hackers <input type="checkbox"/> B will be more difficult to understand <input type="checkbox"/> C is impossible to verify <input type="checkbox"/> D is easier to validate <p style="text-align: right;">(Total 1 mark)</p>	<p style="text-align: center;">Q6</p> <div style="border: 1px solid black; width: 20px; height: 20px; margin: 0 auto;"></div>
<p>7. Some Internet sites contain information unsuitable for children.</p> <p>Parents can restrict the sites that their children access by using a:</p> <ul style="list-style-type: none"> <input type="checkbox"/> A filter <input type="checkbox"/> B firewall <input type="checkbox"/> C browser <input type="checkbox"/> D virus checker <p style="text-align: right;">(Total 1 mark)</p>	<p style="text-align: center;">Q7</p> <div style="border: 1px solid black; width: 20px; height: 20px; margin: 0 auto;"></div>



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8. The diagram shows two tables that have been linked in a relational database.
The Member Number is the primary key in the Member table.
What is the term used to describe Member Number in the Session table?



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

(Total 1 mark)

Q8

9. Which **one** of these statements about on-line banking compared to traditional banking is correct?

- A customers' personal data is more secure
- B charges to customers are always reduced
- C the bank has access to a wider customer base
- D less personal data needs to be stored

(Total 1 mark)

Q9

10. Pupils in a secondary school are aged 11 to 18. The school's database includes an age field.

Which **one** of these values could be used as extreme test data for the age field?

- A 19
- B 11
- C 10
- D 12

(Total 1 mark)

Q10



<p>11. An example of sensible and economical coding for a date field is:</p> <p><input type="checkbox"/> A 11-06-2007</p> <p><input type="checkbox"/> B 11 June 07</p> <p><input type="checkbox"/> C 110607</p> <p><input type="checkbox"/> D 11/jun/2007</p> <p style="text-align: right;">(Total 1 mark)</p>	<p>Leave blank</p> <p>Q11</p> <input type="text"/>
<p>12. What does http stand for?</p> <p><input type="checkbox"/> A hyper text transfer program</p> <p><input type="checkbox"/> B hyper text transfer protocol</p> <p><input type="checkbox"/> C higher text transfer program</p> <p><input type="checkbox"/> D higher text transfer protocol</p> <p style="text-align: right;">(Total 1 mark)</p>	<p>Q12</p> <input type="text"/>
<p>13. The speed at which a computer processor carries out instructions is measured in:</p> <p><input type="checkbox"/> A gigabytes (Gb)</p> <p><input type="checkbox"/> B dots per inch (dpi)</p> <p><input type="checkbox"/> C megabytes (Mb)</p> <p><input type="checkbox"/> D megahertz (MHz)</p> <p style="text-align: right;">(Total 1 mark)</p>	<p>Q13</p> <input type="text"/>
<p>14. When solving an ICT systems problem, the correct sequence is:</p> <p><input type="checkbox"/> A analysis, design, implementation, evaluation</p> <p><input type="checkbox"/> B design, analysis, implementation, evaluation</p> <p><input type="checkbox"/> C design, evaluation, analysis, implementation</p> <p><input type="checkbox"/> D analysis, evaluation, design, implementation</p> <p style="text-align: right;">(Total 1 mark)</p>	<p>Q14</p> <input type="text"/>





<p>15. A garage uses a spreadsheet to calculate the total VAT that should be added to customers' bills. One cell is used to hold the % VAT to be added.</p> <p>The use of one cell in this way is called:</p> <ul style="list-style-type: none"><input type="checkbox"/> A automatic calculation<input type="checkbox"/> B relative cell referencing<input type="checkbox"/> C replication<input type="checkbox"/> D absolute cell referencing <p style="text-align: right;">(Total 1 mark)</p>	Leave blank Q15 <input type="text"/>
<p>16. Replacing the text on screen with other text entered from the keyboard is referred to as:</p> <ul style="list-style-type: none"><input type="checkbox"/> A deleting<input type="checkbox"/> B inserting<input type="checkbox"/> C wrapping<input type="checkbox"/> D overtyping <p style="text-align: right;">(Total 1 mark)</p>	Q16 <input type="text"/>
<p>17. Which type of printer can be described as an impact printer?</p> <ul style="list-style-type: none"><input type="checkbox"/> A ink jet<input type="checkbox"/> B colour laser<input type="checkbox"/> C dot matrix<input type="checkbox"/> D laser <p style="text-align: right;">(Total 1 mark)</p>	Q17 <input type="text"/>
<p>18. Which one of these processes uses check digits?</p> <ul style="list-style-type: none"><input type="checkbox"/> A validation<input type="checkbox"/> B verification<input type="checkbox"/> C replication<input type="checkbox"/> D compression <p style="text-align: right;">(Total 1 mark)</p>	Q18 <input type="text"/>



<p>19. The Internet has potential benefits and drawbacks for both individuals and society.</p> <p>Which one of these statements is correct?</p> <p><input type="checkbox"/> A Everyone has equal opportunity to access the Internet.</p> <p><input type="checkbox"/> B The Internet has narrowed the gap between rich and poor countries.</p> <p><input type="checkbox"/> C The Internet has had a positive effect on many housebound individuals.</p> <p><input type="checkbox"/> D All learning materials found on the Internet are accurate.</p> <p style="text-align: right;">(Total 1 mark)</p>	<p>Leave blank</p> <p>Q19</p> <input type="text"/>
<p>20. Computer-Aided Manufacturing (CAM) is widely used in industry.</p> <p>Which one of these statements is correct?</p> <p><input type="checkbox"/> A CAM can be used to carry out repetitive tasks.</p> <p><input type="checkbox"/> B CAM always prevents delays occurring.</p> <p><input type="checkbox"/> C CAM equipment is cheap and easy to install.</p> <p><input type="checkbox"/> D CAM reduces industrial pollution.</p> <p style="text-align: right;">(Total 1 mark)</p>	<p>Q20</p> <input type="text"/>
<p>TOTAL FOR SECTION A: 20 MARKS</p>	



N 3 3 7 2 9 A 0 7 1 6



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SECTION B

1. Information relating to sales and stocks of books is recorded in the **BOOK_SALES** spreadsheet file.

Part of the **BOOK_SALES** file is shown.

	A	B	C	D	E	F
1	Ref. No	Purchase Price	Selling Price	Opening Stock	Closing Stock	Reorder Level
2	JTH7262	£6.00	£6.60	35	13	8
3	FAU1524	£8.00	£8.80	100	41	8
4	FCO1053	£12.50	£13.75	65	30	5
5	GCO3162	£6.00	£6.60	105	75	8
6	JSC0423	£12.00	£13.20	90	45	5
7	GAU0042	£15.50	£17.05	75	45	5
8	JTH1932	£8.50	£9.35	120	37	8
9	FSC0076	£20.00	£22.00	80	42	5
10	JTH1965	£6.00	£6.60	105	65	8

(a) The **Selling Price** is calculated by adding 10% to the **Purchase Price**.

(i) Write down the formula that has been entered in cell C2 to calculate the **Selling Price** for JTH7262.

.....
.....

(2)

(ii) Name the process that can be used to copy the formula in cell C2 for use in cells C3 to C10.

.....
.....

(1)



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(b) '*Bobbies Bookstore*' does not want too many of the more expensive books in stock.

Books with a **Purchase Price** of £10.00 or more have a **Reorder Level** of 5; cheaper books have a **Reorder Level** of 8.

Write down the formula that is used in F5 to automatically calculate **Reorder Level** for GCO3162.

.....

.....

.....

(3)



(c) A bar chart has been produced for 'Bobbies Bookstore' to show the **Closing Stock** for each book. The chart is saved as CS_CHART for later use.

Here is the chart.



(i) The manager would like to insert the chart into a word processed sales report.

Explain how the manager would do this.

.....

.....

.....

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.....

.....

(4)

(Quality of Written Communication: 3 marks)

(ii) Identify **one** way of **automatically** inserting the spreadsheet into the word processed sales report.

.....

(1)

(Total 14 marks)

QB1

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2. Sales at '*Bobbies Bookstore*' are processed through the EPOS system.

(a) Explain how the EPOS system works.

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

(4)

(b) The EPOS system has advantages for both '*Bobbies Bookstore*' and its customers.

(i) Identify **two** advantages for '*Bobbies Bookstore*'.

Advantage 1
.....
Advantage 2
.....

(2)

(ii) Identify **two** advantages for customers.

Advantage 1
.....
Advantage 2
.....

(2)

QB2

(Total 8 marks)



3. 'Bobbies Bookstore' has decided to introduce an on-line ordering facility on its website.

(a) Give **two** advantages for customers of using an on-line ordering facility.

Advantage 1

.....

Advantage 2

.....

(2)

(b) Give **three** advantages for 'Bobbies Bookstore' of customers ordering on-line.

Advantage 1

.....

Advantage 2

.....

Advantage 3

.....

(3)

(c) 'Bobbies Bookstore' sends an automatic confirmation e-mail to a customer when an order is received.

Explain how the email gets from the computer at 'Bobbies Bookstore' to the customer's computer.

.....

.....

.....

.....

.....

.....

(4)



(d) 'Bobbies Bookstore' employs an ICT specialist to manage the computer network. One of their responsibilities is to keep the website updated.

Identify **three** other responsibilities the ICT specialist will have.

1

.....

2

.....

3

.....

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(3)

QB3

(Total 12 marks)

TURN OVER FOR QUESTION 4



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4. The ICT specialist at 'Bobbies Bookstore' has set up a template for use on all website pages.

(a) One of the reasons a template is used is to show where text and graphics should be placed.

Identify **three** other reasons for using templates and for each give an example of how it can be used in the website.

Reason

Example

Reason

Example

Reason

Example

(6)

(b) Some graphics used on the website are bitmap images.

Bitmap image files can be very large.

A disadvantage of large files is that they take up a large amount of computer storage.

(i) Give **one** other disadvantage of having large files **on the website**.

.....

(1)

(ii) Name the process that is used to reduce the storage size of large files.

.....

(1)

(iii) Name the legislation that controls the copying of graphic images.

.....

(1)

QB4

(Total 9 marks)

TOTAL FOR SECTION B: 43 MARKS

TOTAL FOR PAPER: 63 MARKS

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