



**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 about an answer, 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 row in the table is correct?

	Scanner	Floppy Disc
<input type="checkbox"/> A	input	storage
<input type="checkbox"/> B	output	input
<input type="checkbox"/> C	storage	input
<input type="checkbox"/> D	input	output

**(Total 1 mark)**

Q1

2. A set of data stored on a disc is called

- A a table
- B a file
- C a record
- D a field

**(Total 1 mark)**

Q2

3. The practise of keeping a copy of a document on two separate storage devices is described as

- A feedback
- B autosave
- C backup
- D formatting

**(Total 1 mark)**

Q3



<p>4. Which of the following is <b>not</b> software?</p> <p><input type="checkbox"/> A printer driver</p> <p><input type="checkbox"/> B applications package</p> <p><input type="checkbox"/> C plotter</p> <p><input type="checkbox"/> D operating system</p> <p style="text-align: right;"><b>(Total 1 mark)</b></p>	<p>Leave blank</p> <p style="text-align: center;">Q4</p> <input style="width: 20px; height: 20px;" type="text"/>
<p>5. CPU stands for</p> <p><input type="checkbox"/> A Computer Processing Unit</p> <p><input type="checkbox"/> B Central Processing Unit</p> <p><input type="checkbox"/> C Central Protecting Unit</p> <p><input type="checkbox"/> D Computer Programming Unit</p> <p style="text-align: right;"><b>(Total 1 mark)</b></p>	<p style="text-align: center;">Q5</p> <input style="width: 20px; height: 20px;" type="text"/>
<p>6. Which of these is <b>not</b> a peripheral device?</p> <p><input type="checkbox"/> A scanner</p> <p><input type="checkbox"/> B keyboard</p> <p><input type="checkbox"/> C control unit</p> <p><input type="checkbox"/> D speaker</p> <p style="text-align: right;"><b>(Total 1 mark)</b></p>	<p style="text-align: center;">Q6</p> <input style="width: 20px; height: 20px;" type="text"/>
<p>7. Starting with the smallest size, which row correctly lists storage space?</p> <p><input type="checkbox"/> A bit, byte, kilobyte, megabyte</p> <p><input type="checkbox"/> B kilobyte, bit, byte, megabyte</p> <p><input type="checkbox"/> C byte, kilobyte, megabyte, bit</p> <p><input type="checkbox"/> D megabyte, kilobyte, byte, bit</p> <p style="text-align: right;"><b>(Total 1 mark)</b></p>	<p style="text-align: center;">Q7</p> <input style="width: 20px; height: 20px;" type="text"/>





<p>8. The process of allowing text to flow around graphics is known as</p> <ul style="list-style-type: none"><li><input type="checkbox"/> A text grouping</li><li><input type="checkbox"/> B text layering</li><li><input type="checkbox"/> C text wrapping</li><li><input type="checkbox"/> D text framing</li></ul> <p style="text-align: right;"><b>(Total 1 mark)</b></p>	Leave blank  <b>Q8</b> <input type="text"/>
<p>9. It is possible to stop hackers accessing computer files by</p> <ul style="list-style-type: none"><li><input type="checkbox"/> A installing anti-virus software</li><li><input type="checkbox"/> B not opening e-mail attachments</li><li><input type="checkbox"/> C not copying files from friends</li><li><input type="checkbox"/> D installing a firewall</li></ul> <p style="text-align: right;"><b>(Total 1 mark)</b></p>	<b>Q9</b> <input type="text"/>
<p>10. A keyboard which is designed to make it comfortable to use is</p> <ul style="list-style-type: none"><li><input type="checkbox"/> A economic</li><li><input type="checkbox"/> B ergonomic</li><li><input type="checkbox"/> C QWERTY</li><li><input type="checkbox"/> D alphabetical</li></ul> <p style="text-align: right;"><b>(Total 1 mark)</b></p>	<b>Q10</b> <input type="text"/>
<p>11. What happens to the data stored in RAM when a computer is turned off?</p> <ul style="list-style-type: none"><li><input type="checkbox"/> A it is lost</li><li><input type="checkbox"/> B it remains in RAM</li><li><input type="checkbox"/> C it is transferred to ROM</li><li><input type="checkbox"/> D it is transferred to the hard drive</li></ul> <p style="text-align: right;"><b>(Total 1 mark)</b></p>	<b>Q11</b> <input type="text"/>



<p>A school has set up a system to monitor the temperature in a tank where pet lizards are kept.</p> <p>The temperature is monitored constantly. Adjustments are made to keep the temperature between set limits.</p> <p>Use this information to answer questions 12, 13 and 14.</p> <p><b>12.</b> The temperature is detected using a thermistor. A thermistor is a type of</p> <p><input type="checkbox"/> A switch</p> <p><input type="checkbox"/> B sensor</p> <p><input type="checkbox"/> C actuator</p> <p><input type="checkbox"/> D processor</p> <p style="text-align: right;"><b>(Total 1 mark)</b></p>	<p>Leave blank</p> <p style="text-align: center;">Q12</p> <p style="text-align: center;">□</p>
<p><b>13.</b> What is the term used to describe variables which continually change, such as temperature?</p> <p><input type="checkbox"/> A discrete</p> <p><input type="checkbox"/> B digital</p> <p><input type="checkbox"/> C averaging</p> <p><input type="checkbox"/> D analogue</p> <p style="text-align: right;"><b>(Total 1 mark)</b></p>	<p style="text-align: center;">Q13</p> <p style="text-align: center;">□</p>
<p><b>14.</b> The use of output information to affect future inputs to a system is called</p> <p><input type="checkbox"/> A backup</p> <p><input type="checkbox"/> B feedback</p> <p><input type="checkbox"/> C actuator</p> <p><input type="checkbox"/> D operator</p> <p style="text-align: right;"><b>(Total 1 mark)</b></p>	<p style="text-align: center;">Q14</p> <p style="text-align: center;">□</p>
<p><b>15.</b> The resolution of the screen can be defined by</p> <p><input type="checkbox"/> A the size of the monitor</p> <p><input type="checkbox"/> B the speed of the processor</p> <p><input type="checkbox"/> C the amount of RAM</p> <p><input type="checkbox"/> D the number of pixels in the display</p> <p style="text-align: right;"><b>(Total 1 mark)</b></p>	<p style="text-align: center;">Q15</p> <p style="text-align: center;">□</p>



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16. A school cafeteria wants to find out the amount of time that pupils have to queue to buy lunch. They use a computer model to help this investigation.

Which **two** inputs are required?

1. the number of pupils using the cafeteria
2. the average amount spent by pupils
3. the number of cashiers
4. the average time spent waiting in the queue

<input checked="" type="checkbox"/> A	1 and 2
<input checked="" type="checkbox"/> B	3 and 4
<input checked="" type="checkbox"/> C	1 and 3
<input checked="" type="checkbox"/> D	2 and 4

Q16

(Total 1 mark)

The table shows some members of a community centre. Anyone under twenty years old can apply for junior membership at a lower rate. Use the information given to answer questions 17, 18, 19 and 20.

Member Number	Surname	Forename	Date of Birth	Member Type	Paid?
07135	Paine	Joe	12/10/89	Junior	Y
17171	Smithson	Sandie	06/07/74	Full	Y
16104	Jaques	Francis	02/11/85	Full	N
12027	Chan	Christie	16/06/92	Junior	N
07073	Giorven	Sam	03/04/77	Full	Y

17. The key field in the table is

- A Surname
- B Date of Birth
- C Member Type
- D Member Number

Q17

(Total 1 mark)



<p><b>18.</b> The community centre wants to find junior members who have <b>not</b> paid their membership fees. Which query would be used?</p> <p><input type="checkbox"/> <b>A</b> Member Type is not Full and Paid is N</p> <p><input type="checkbox"/> <b>B</b> Member Type is Junior and Paid is Y</p> <p><input type="checkbox"/> <b>C</b> Member Type is Junior or Paid is Y</p> <p><input type="checkbox"/> <b>D</b> Member Type is Junior and Paid is not N</p> <p style="text-align: right;"><b>(Total 1 mark)</b></p>	<p>Leave blank</p> <p><b>Q18</b></p> <input type="text"/>
<p><b>19.</b> Which of these checks could <b>not</b> be used to validate the surname field?</p> <p><input type="checkbox"/> <b>A</b> type check</p> <p><input type="checkbox"/> <b>B</b> range check</p> <p><input type="checkbox"/> <b>C</b> length check</p> <p><input type="checkbox"/> <b>D</b> presence check</p> <p style="text-align: right;"><b>(Total 1 mark)</b></p>	<p><b>Q19</b></p> <input type="text"/>
<p><b>20.</b> A database file in which tables are linked together is</p> <p><input type="checkbox"/> <b>A</b> relative</p> <p><input type="checkbox"/> <b>B</b> referential</p> <p><input type="checkbox"/> <b>C</b> relational</p> <p><input type="checkbox"/> <b>D</b> recorded</p> <p style="text-align: right;"><b>(Total 1 mark)</b></p>	<p><b>Q20</b></p> <input type="text"/>
<p><b>TOTAL FOR SECTION A: 20 MARKS</b></p>	



**SECTION B**

**Case Study Questions.**  
**Attempt ALL questions using the spaces provided.**

1. Nevio's holds information about its staff on a database in the STAFF\_FILE. Part of the file is shown here.

STAFF-ID	Surname	Forename	Date of Birth	Job Title
85SDI	DiGorgio	Stephano	10/06/75	Head Chef
96KSA	Sangha	Kulbir	15/12/69	Waiter
95SDA	Davison	Sue	12/02/63	Bar Manager
99SHI	Hills	Stacey	02/08/49	Waitress
05PJO	Johnson	Peter	29/06/79	Office Assistant
99KGI	Giodarno	Katrina	22/11/83	Sous Chef
83PNO	Notrianni	Paulo	12/07/63	Waiter

- (a) (i) State how many records are shown.

.....  
**(1)**

- (ii) State how many fields are shown.

.....  
**(1)**

- (b) The data stored in Job Title is text data.

Give the data type for

STAFF-ID .....  
**(1)**

Date of Birth .....  
**(1)**

- (c) The STAFF-ID has been encoded.

- (i) Describe what is meant by 'encoded'.

.....  
 .....  
 .....  
**(2)**





Leave blank

(ii) Give **two** benefits of encoding data.

1 .....

.....

2 .....

.....

(2)

(iii) The first two characters in the STAFF-ID field represent the year that the person joined the company.

Explain what the last three characters represent.

.....

.....

.....

(2)

(d) Nevio wants to produce a report showing **only** the Forename, Surname and Date of Birth for waiters and waitresses.

Write down the instructions to do this.

.....

.....

.....

.....

.....

.....

(4)

QB1

(Total 14 marks)



2. The information relating to the sales of drinks is stored in the DRINKS\_FILE on spreadsheet software.

Part of the DRINKS\_FILE is shown.

	A	B	C	D	E	F	G
1	PRODUCT	COST PRICE	SELLING PRICE	OPENING STOCK	NO. BOUGHT	NO. SOLD	CLOSING STOCK
2	Still water (bottle)	£1.50	£2.00	34	150	95	89
3	Fizzy water (bottle)	£1.75	£2.20	54	150	103	101
4	Cola (can)	£0.50	£0.75	45	200	180	65
5	Red wine (bottle)	£10.00	£14.50	49	200	196	53
6	White wine (bottle)	£11.00	£17.50	64	200	225	39

(a) (i) State the cell address of the SELLING PRICE of Cola (can).

..... (1)

(ii) State the contents of cell D5.

..... (1)

(iii) The CLOSING STOCK is calculated by adding OPENING STOCK to NO. BOUGHT and subtracting NO. SOLD.

Write down the formula that should be entered into Cell G4.

..... (1)



Leave  
blank

(iv) State **two** reasons why spreadsheet software is suitable for the DRINKS\_FILE.

1 .....

.....

2 .....

.....

(2)

(b) Validation is the method used to check that data is sensible, reasonable and acceptable.

Give **two** types of validation checks that could be applied to COST PRICE.

1 .....

2 .....

(2)

(c) (i) Name the method of checking that data is accurate.

.....

(1)

(ii) Give **one** example of this method.

.....

.....

(1)

QB2

(Total 9 marks)



3. Appropriate hardware and software have been bought to allow menus to be created in-house.

(a) (i) Give the input device that will be used to enter text.

.....  
(1)

(ii) Give the output device that will be used to produce a hard copy.

.....  
(1)

(iii) Give another word for software.

.....  
(1)

(b) Menus are produced using a template within desktop publishing (DTP) software.

(i) Give **three** other features of DTP software that make it appropriate for producing menus.

1 .....

.....

2 .....

.....

3 .....

.....

(3)

(ii) Give **three** reasons for using a template.

1 .....

.....

2 .....

.....

3 .....

.....

(3)



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(c) Photographs are imported into pre-designed cards to give to customers as mementos of special events, such as birthdays and other anniversaries.

The pre-designed cards are saved as template files.  
The photographs are downloaded onto the computer and saved as files.

Describe the process of including the photograph in the card.

.....

.....

.....

.....

.....

.....

(3)

(Quality of Written Communication: 3 marks)

(Total 15 marks)

QB3



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4. The main office currently has one computer connected to the Internet. This is used to receive customer information e-mailed from restaurants at the end of each day.

(a) Give **two** benefits to Nevio's of using e-mail rather than the telephone.

1 .....

.....

2 .....

.....

(2)

(b) When connected to the Internet Nevio's has to make sure that its data is kept secure.

Two security risks are viruses and hackers.

Give **one** way to minimise each of these risks.

Viruses .....

.....

Hackers .....

.....

(2)

(c) Give the name for the method of changing data according to a set of rules so that no one else can read it.

.....

(1)

QB4

(Total 5 marks)

**TOTAL FOR SECTION B: 43 MARKS**



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**SECTION C**

**Attempt ALL questions using the spaces provided.**

1. (a) Give the most suitable storage medium for each of these.
- (i) A word processed document  
.....  
**(1)**
  - (ii) A full length feature film  
.....  
**(1)**
- (b) A CD ROM stores approximately 700 Mb of data.
- (i) State what Mb stands for.  
.....  
**(1)**
  - (ii) State what ROM stands for.  
.....  
**(1)**
- (c) Give the most suitable device to
- (i) Input sound  
.....  
**(1)**
  - (ii) Insert a hand-drawn map into a document  
.....  
**(1)**
- (d) Name a device which is both an input and an output device.  
.....  
**(1)**
- (e) Give another word for program.  
.....  
**(1)**

**(Total 8 marks)**

QC1



2. Greenriggs is a small garden centre. It sells a range of plants and garden equipment.



(a) The device shown in the picture is used to capture data about sales in the garden centre.

(i) Name the device shown in the picture.

..... (1)

(ii) Sometimes the device does not work correctly.

State how the checkout operator would know that the device has not read the data.

.....  
..... (1)

(b) Customers can pay for goods with a credit card. Some data is already stored on the credit card.

(i) State where data can be stored on the credit card.

1 .....  
2 ..... (2)

(ii) Give **one** piece of data that **must** be stored on the card.

..... (1)





Leave  
blank

(c) Customers can pay by cheque.

At the end of each day the cheques are sent to the bank for processing.

(i) Name the device that is used to input data from the cheques.

.....  
(1)

(ii) This device inputs data very quickly.

State **two** other advantages of this type of data capture.

1 .....

.....

2 .....

.....

(2)

(iii) State **one** disadvantage of this type of data capture.

.....

.....

(1)

(d) This method of data capture is automatic. Automatic data capture is faster than manual data entry.

Give **one** other advantage of automatic data capture rather than manual data entry.

.....

.....

(1)

QC2

(Total 10 marks)

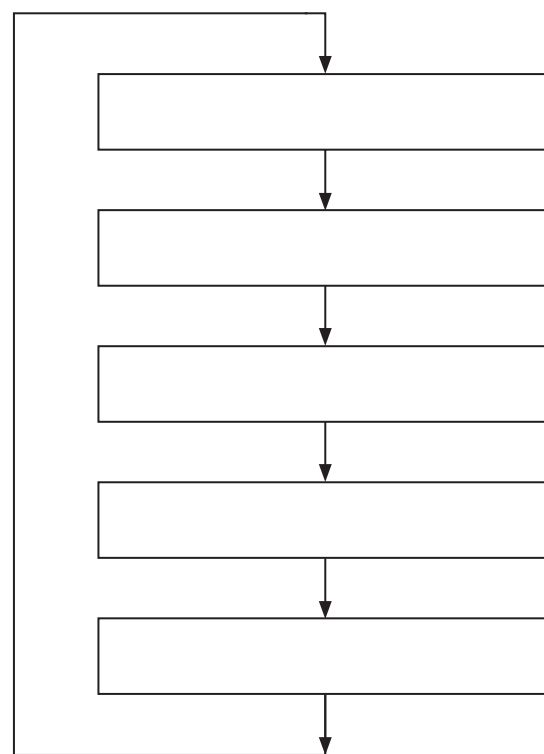


3. There are five stages in the development of ICT systems.

(a) The diagram shows the structure of these stages.

Use the words given to complete the diagram, showing the correct order.

**Analysis      Design      Evaluation      Implementation      Investigation**



(3)

(b) Name the stage when a feasibility study is carried out.

..... (1)

(c) Name **one** method that can be used to gather information.

..... (1)

(d) State what must be done to make sure that the system works as expected.

..... (1)

QC3

(Total 6 marks)

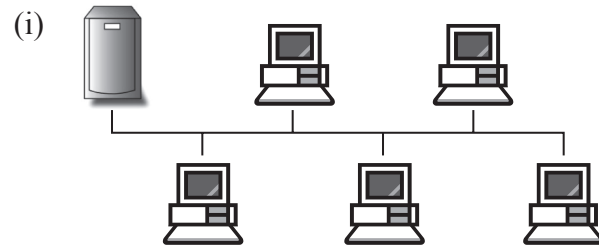


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4. Network topology describes the way computers are connected together to form a network.

(a) Name the network topologies shown. For each one give **one** advantage and **one** disadvantage.



Topology .....

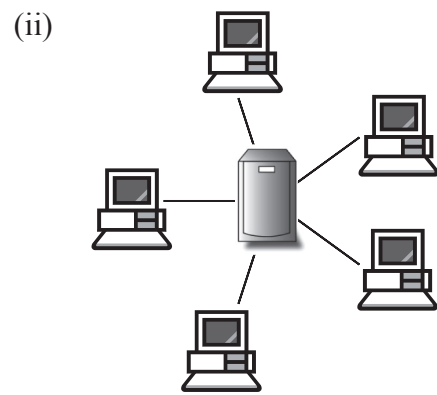
Advantage .....

.....

Disadvantage .....

.....

(3)



Topology .....

Advantage .....

.....

Disadvantage .....

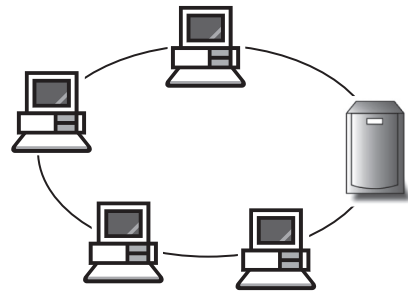
.....

(3)



Leave blank

(iii)



Topology .....

Advantage .....

.....

Disadvantage .....

.....

(3)

(b) These topologies are all examples of networks on one site connected by cables. Name this type of network.

.....

(1)

QC4

(Total 10 marks)



5. George Davenport runs a small company that rents rooms to students. His office has two stand-alone computers that are used by staff for general office work.

(a) George wants to keep details of the students on the computer.

(i) Give the best type of software for him to use.

.....  
(1)

(ii) Give **three** features of the software that make it suitable for the task.

1 .....

.....

2 .....

.....

3 .....

.....  
(3)

(b) George often has to send letters to the students.

(i) Give the best type of software for him to use for this task.

.....  
(1)

(ii) Give **two** functions of this software that will help him check accuracy.

1 .....

.....

2 .....

.....  
(2)

(c) Name **one** output device that George would need as part of each stand-alone computer.

.....  
(1)



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blank

(d) George wants to make sure that data is kept safe and secure. The staff have user names and passwords to gain access to the computers.

(i) Give **two** other software methods that George can use to protect the data.

1 .....

.....

2 .....

.....

(2)

(ii) Give **two** physical methods that George can use to protect the data.

1 .....

.....

2 .....

.....

(2)

(e) George knows that there are potential health risks for the staff who use computers frequently.

Identify **one** way in which each of these risks can be reduced.

Repetitive Strain Injury (RSI) .....

.....

Eye strain .....

.....

Backache .....

.....

(3)

QC5

(Total 15 marks)







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(b) Give **three** advantages to customers of being able to book rooms on-line

1 .....

.....

2 .....

.....

3 .....

.....

(3)

(Quality of Written Communication: 3 marks)

QC6

(Total 14 marks)

**TOTAL FOR SECTION C: 63 MARKS**

**TOTAL FOR PAPER: 126 MARKS**

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