

GCSL

**Information and
Communication Technology
(Short Course)**

Summer 2010

Mark Schemes

Issued: October 2010

**NORTHERN IRELAND GENERAL CERTIFICATE OF SECONDARY EDUCATION (GCSE)
AND NORTHERN IRELAND GENERAL CERTIFICATE OF EDUCATION (GCE)**

MARK SCHEMES (2010)

Foreword

Introduction

Mark Schemes are published to assist teachers and students in their preparation for examinations. Through the mark schemes teachers and students will be able to see what examiners are looking for in response to questions and exactly where the marks have been awarded. The publishing of the mark schemes may help to show that examiners are not concerned about finding out what a student does not know but rather with rewarding students for what they do know.

The Purpose of Mark Schemes

Examination papers are set and revised by teams of examiners and revisers appointed by the Council. The teams of examiners and revisers include experienced teachers who are familiar with the level and standards expected of 16 and 18-year-old students in schools and colleges. The job of the examiners is to set the questions and the mark schemes; and the job of the revisers is to review the questions and mark schemes commenting on a large range of issues about which they must be satisfied before the question papers and mark schemes are finalised.

The questions and the mark schemes are developed in association with each other so that the issues of differentiation and positive achievement can be addressed right from the start. Mark schemes therefore are regarded as a part of an integral process which begins with the setting of questions and ends with the marking of the examination.

The main purpose of the mark scheme is to provide a uniform basis for the marking process so that all the markers are following exactly the same instructions and making the same judgements in so far as this is possible. Before marking begins a standardising meeting is held where all the markers are briefed using the mark scheme and samples of the students' work in the form of scripts. Consideration is also given at this stage to any comments on the operational papers received from teachers and their organisations. During this meeting, and up to and including the end of the marking, there is provision for amendments to be made to the mark scheme. What is published represents this final form of the mark scheme.

It is important to recognise that in some cases there may well be other correct responses which are equally acceptable to those published: the mark scheme can only cover those responses which emerged in the examination. There may also be instances where certain judgements may have to be left to the experience of the examiner, for example, where there is no absolute correct response – all teachers will be familiar with making such judgements.

The Council hopes that the mark schemes will be viewed and used in a constructive way as a further support to the teaching and learning processes.

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Rewarding Learning

**General Certificate of Secondary Education
2010**

Information and Communication Technology

Short Course

Paper 1

Foundation Tier

[G5301]

MONDAY 21 JUNE, MORNING

**MARK
SCHEME**

- 1 (a) **B** Online and batch processed
- (b) **D** It carries out hardware checks and loads the operating system into main memory from the hard disc
- (c) **B** Teleworking means more travelling for employees
- (d) **D** Immediate transfer of funds
- (e) **B** ROM
- (f) **B** Allows data subjects to view all data held about them and have it corrected if it is incorrect
- (g) **C** Ensures that data is stored securely
- (h) **D** The inclusion of sound and navigation buttons
- (i) **D** External Hard Drive
- (j) **C** Computer program used to model a real life situation
- 2 (a) **TWO** from:
A template is a standard layout/plan for a document [1]
Determines the basic structure for the document [1]
The user fills the template with information in predefined positions [1]
A suitable example, e.g. headed note paper/invoice/fax header [1]
Can be edited [1] [2]
- (b) **ONE** from:
Template settings can be used over and over again [1]
Templates ensure that all documents produced have a standard presentation/structure/layout [1]/more professional [1]
Templates can be made available to all users of the system [1]
Faster than retyping information [1]
Can be easily customised/modified [1] [1]

10

(c)

AVAILABLE
MARKS

Mailmerge	<ul style="list-style-type: none"><input checked="" type="checkbox"/> Uses a database<input type="checkbox"/> Provides step by step instructions<input type="checkbox"/> Helps users complete tasks<input checked="" type="checkbox"/> Requires fields to be added to the main document<input type="checkbox"/> Allows users to add new words<input type="checkbox"/> Helps ensure spelling is correct <p style="text-align: right;">[2]</p>
Wizard	<ul style="list-style-type: none"><input type="checkbox"/> Uses a database<input checked="" type="checkbox"/> Provides step by step instructions<input checked="" type="checkbox"/> Helps users complete tasks<input type="checkbox"/> Requires fields to be added to the main document<input type="checkbox"/> Allows users to add new words<input type="checkbox"/> Helps ensure spelling is correct <p style="text-align: right;">[2]</p>
Thesaurus	<ul style="list-style-type: none"><input type="checkbox"/> Uses a database<input type="checkbox"/> Provides step by step instructions<input type="checkbox"/> Helps users complete tasks<input type="checkbox"/> Requires fields to be added to the main document<input checked="" type="checkbox"/> Allows users to add new words<input checked="" type="checkbox"/> Helps ensure spelling is correct <p style="text-align: right;">[2]</p>

more than 2 ticks [0] marks

9

3 Data logging involves the use of a **SENSOR** to **CAPTURE** data. The time taken between each reading is called the data logging **INTERVAL**. In this case a **TEMPERATURE** sensor would be appropriate. [4]

4

4 (a) **ONE** from:
 Pictures can be edited/stored/deleted on camera/on computer [1]
 Pictures can be previewed [1]
 Time/date can be added to picture [1]
 Film is not required [1]/No need for developing [1]
 View on TV [1]
 Can take a video [1] [1]

(b)

Statement	Tick (✓)
Most touch screens show blurry images.	
A touch screen can be used as an input device.	✓
A touch screen requires a high level of ICT knowledge to use.	
A touch screen can be used as an output device.	✓

more than 2 ticks [0] marks [2]

(c) **TWO** from:
 Access the Internet (including examples, e.g. e-mail) [1]
 Buy services/films/products (including examples of buying using remote control/keyboard) [1]
 Vote [1]/Interact directly with TV programmes [1] – e.g. – pause live TV/change viewing angle/enter competitions
 Play games [1] [2]

5

- 5 (a) Scan [1]/scanner [1]/scanning [1]/use digital camera [1] [1]
- (b) Copyright [1], Designs and Patents (Act) [1] [2]
- (c) (i) A program/file/software [1] which is designed to damage a computer system [1]/corrupt files/attack the system/damage files or an example of damage [1] [2]
- (ii) **TWO** from:
 Buy/install antivirus software/virus scanner/virus detection/virus protection (accept also names of products known to be antivirus software, e.g. Norton) [1]
 Scan e-mails/attachments/files/documents etc./do not open emails with attachments [1]
 Use a firewall [1]
 Update virus software [1]
 Do not download from unknown source/potentially harmful sites
 Run virus checks/scans/scan the computer system/run computer checks [1] [2]
- (iii) Computer Misuse (Act) [1]

AVAILABLE
MARKS

8

Question 5 – Quality of Written Communication

- [3] Highly accurate spelling and punctuation. A good range of technical terms.
 [2] Accurate spelling and punctuation. Some technical terms used.
 [1] Reasonably accurate spelling and punctuation. Limited range of technical terms used.
 [0] Question not attempted.

3

- 6 (a) **ONE** from:
 Don't have to leave house [1]
 Better choice [1]
 Delivery to home [1]
 Special offers [1]
 Cheaper [1] [1]

- (b) **ONE** from:
 He can read it immediately [1]/available immediately [1]
 Not affected by postal strike/speed of post/cannot get lost in post [1]
 No postal charges [1]
 Read it on electronic media [1]
 Repeatedly download [1]
 No shop visit required [1]/can be purchased from any location [1]
 Environmental advantage [1]

- (c) **ONE** from:
 Prevents unauthorised login/hacking/fraud
 Ensures only authorised users can access the account [1]
 Provides security for user account details [1]
 Passwords prevent unauthorised login [1] [1]

(d)

Statement	Tick (✓)
Hacking involves placing data on the Internet	
Hacking involves unauthorised access to the system	✓
Hacking breaks the Data Protection Act	

[1]

4

Question 6 – Quality of Written Communication

- [2] Accurate spelling and punctuation. Some specialist terms used.
 [1] Reasonably accurate spelling and punctuation. Limited range of specialist terms used.
 [0] Question not attempted.

2

7 (a)

Filename	Statement				
Assignment 1	has been created by a word processor	has been created by a graphics package	has been created by presentation software	has been created by a spreadsheet package	is a folder
Assignment 2	has been created by a word processor	has been created by a graphics package	has been created by presentation software	has been created by a spreadsheet package	is a folder
Assignment 3	has been created by a word processor	has been created by a graphics package	has been created by presentation software	has been created by a spreadsheet package	is a folder
database	has been created by a word processor	has been created by a graphics package	has been created by presentation software	has been created by a spreadsheet package	is a folder

[3]

- (b) (i) Backup is a copy of existing (original) files/data [1]
- (ii) In case the original data/file/work/documents/folders is lost/deleted/corrupted/damaged [1]
- (iii) ONE from:
 High storage (space) capacity [1]
 Portable [1]
 Physically robust/not easily damaged [1] [1]

AVAILABLE MARKS

6

- 8 (a) **TWO** from:
 PIN protection [1]
NOT chip and PIN
 Data can be changed/updated [1]
 (Smart chip) holds more data [1]
 (Smart chip technology) is more secure [1]/better security [1]
 Small size of the chip (can fit easily on card) [1] [2]

(b)

Data on a magnetic stripe can be read by humans	Data on a magnetic stripe can be damaged by magnetic fields	Magnetic stripes can hold very large quantities of data	Data on a magnetic stripe must be read by a special reader
---	---	---	--

[2]

- (c) (i) Automatic/Automated teller/telling machine [1]

(ii) **TWO** from:

- Change PIN [1]
- Order Cheque Book [1]
- Cash Withdrawal [1]
- Top Up Mobile Phone [1]
- Balance enquiry [1]
- Mini statement [1]
- Receipt [1] [2]

9 (a) Wide Area Network

[1]

(b)

Item	Explanation
Search Engine	<input type="checkbox"/> To upload and download files <input type="checkbox"/> To display webpages <input checked="" type="checkbox"/> To find webpages <input type="checkbox"/> To get connected to the Internet <input type="checkbox"/> To allow data transfer from his PC to the Internet
Web Browser	<input type="checkbox"/> To upload and download files <input checked="" type="checkbox"/> To display webpages <input type="checkbox"/> To find webpages <input type="checkbox"/> To get connected to the Internet <input type="checkbox"/> To allow data transfer from his PC to the Internet
Telecommunications link Note needs more than a telecommunication link to get connected to the Internet	<input type="checkbox"/> To upload and download files <input type="checkbox"/> To display webpages <input type="checkbox"/> To find webpages <input type="checkbox"/> To get connected to the Internet <input checked="" type="checkbox"/> To allow data transfer from his PC to the Internet

[3]

(c) (i) Internet Service Provider

[1]

(ii)

An ISP would	Tick (✓)
Install software for the user	
Provide an email service	✓
Provide different bandwidth options	✓
Maintain the user's PC	

[2]

AVAILABLE MARKS

10 (a) World Wide Web [1] [1]

(b) (i) ONE from: (Emphasis on clicked)
Link/text/picture/icon which when clicked takes you to a different (web)site/(web)page/file or a different part of the Internet [1]
Links/connects to another page/site/document when clicked on [1]

(ii) ONE from:
Any of the buttons, e.g. "About Us" [1]
Any of the e-mail links [1] [1]

11 (a) Any row/record correctly highlighted – no marks for multiple rows highlighted [1]

(b) 11 [1]

(c) (i) OrderID – Alphanumeric/Character/Text/String [1]

(ii) Collected – Boolean/Yes/No/Yes OR No/Text [1]

(d) query [1]

12 (a) Merged/Bold [1] [1]

(b) Currency [1]

(c)

Formula	Tick (✓)
=E15*F15	✓
=E15+F15	
=C15*D15	

[1]

(d) E17 [1]

(e) (i) B5:B16 [1] G5:G16 [1] instead of (:) – accept (–), (to), (,) [2]
B6:B16 [1] G6:G16 [1]

(ii) Heated Rollers [1] [1]

AVAILABLE
MARKS

3

5

7





Definition	Term
Software which includes windows, icons, menus and pointers	Graphical User Interface
A device which allows the electronic transmission of paper documents	Facsimile
Communicating across a network using sound and images	Video conferencing
A method of making a file smaller in size	Compression
A method used to prevent websites and webpages from being accessed	WEB FILTERING
Sending an e-mail to recipients when they can only see their own details and not those of other recipients	Blind Carbon Copy
An output device which uses toner to place images on paper	Laser Printer
A storage medium which can only be read from	CD-ROM
A picture file which has not been optimised for use on the Internet	Bitmap
A method of placing files on the Internet	Uploading

[10]

10

14 (a)

AVAILABLE
MARKS

Image	Effect
	<p>Resize</p>
	<p>Crop</p>
	<p>Flip</p>
	<p>Rotate</p>

[4]

(b)

Task	TV-Out	Hard Disk	Optical Drive	Wireless Enabled
Connecting to the wireless network				✓
Installing new software			✓	
Connecting to a TV	✓			
Storing coursework files		✓		

[4]

(c) (i) ONE from:

Can work on the move [1]

Know in advance they have 8 hrs [1]

Reference to the time it can be used without charging [1]

Employees can use the notebook without the need to “plug in” [1]

Long battery life means they can use it all day without recharging [1]

[1]

(ii) ONE from:

Light weight therefore easy to carry around [1]

Portable [1]

[1]

10

Total

100

AVAILABLE
MARKS



Rewarding Learning

**General Certificate of Secondary Education
2010**

Information and Communication Technology

Short Course

Paper 1

Higher Tier

[G5302]

MONDAY 21 JUNE, MORNING

**MARK
SCHEME**

- 1 (a) **B** Online and batch processed
- (b) **D** It carries out hardware checks and loads the operating system into main memory from the hard disc
- (c) **B** Teleworking means more travelling for employees
- (d) **D** Immediate transfer of funds
- (e) **B** ROM
- (f) **B** Allows data subjects to view all data held about them and have it corrected if it is incorrect
- (g) **C** Ensures that data is stored securely
- (h) **D** The inclusion of sound, the use of slide masters and the inclusion of navigation buttons
- (i) **D** External Hard Drive
- (j) **C** Computer program used to model a real life situation
- 2 (a) **TWO** from:
A template is a standard layout/plan for a document [1]
Determines the basic structure for the document [1]
The user fills the template with information in predefined positions [1]
A suitable example, e.g. headed note paper/invoice/fax header [1]
Can be edited [1] [2]
- (b) **ONE** from:
Template settings can be used over and over again [1]
Templates ensure that all documents produced have a standard presentation/structure/layout [1]/more professional [1]
Templates can be made available to all users of the system [1]
Faster than retyping information [1]
Can be easily customised/modified [1] [1]

10

(c)

AVAILABLE
MARKS

Mailmerge	<ul style="list-style-type: none"><input checked="" type="checkbox"/> Uses a database<input type="checkbox"/> Provides step by step instructions<input type="checkbox"/> Helps users complete tasks<input checked="" type="checkbox"/> Requires fields to be added to the main document<input type="checkbox"/> Can be customised to include new words<input type="checkbox"/> Helps ensure spelling is correct<input type="checkbox"/> Is responsible for text formatting <p style="text-align: right;">[2]</p>
Wizard	<ul style="list-style-type: none"><input type="checkbox"/> Uses a database<input checked="" type="checkbox"/> Provides step by step instructions<input checked="" type="checkbox"/> Helps users complete tasks<input type="checkbox"/> Requires fields to be added to the main document<input type="checkbox"/> Can be customised to include new words<input type="checkbox"/> Helps ensure spelling is correct<input type="checkbox"/> Is responsible for text formatting <p style="text-align: right;">[2]</p>
Dictionary	<ul style="list-style-type: none"><input type="checkbox"/> Uses a database<input type="checkbox"/> Provides step by step instructions<input type="checkbox"/> Helps users complete tasks<input type="checkbox"/> Requires fields to be added to the main document<input checked="" type="checkbox"/> Can be customised to include new words<input checked="" type="checkbox"/> Helps ensure spelling is correct<input type="checkbox"/> Is responsible for text formatting <p style="text-align: right;">[2]</p>

9

3 (a) Data logging involves the use of a **SENSOR** to **CAPTURE** data. The time taken between each reading is called the data logging **INTERVAL**. In this case a **TEMPERATURE** sensor would be appropriate. [4]

(b) **ONE** from:
Recordings taken at exact time intervals [1]/data is logged onto the computer [1]/data can be processed immediately by the computer [1]/he does not have to be present to take the readings [1]/reference to direct data capture [1] [1]

(c) **TWO** from:
Import data collected into a spreadsheet for analysis [1]
Use the data collected to create graphs/charts in a spreadsheet software [1]
Powerpoint/Use multimedia presentation (or word processing) software to create a presentation (or report) [1]
Use word processing/DTP software to create a report [1] [2]

7

4 (a) **TWO** from:
Pictures can be edited/stored/deleted on camera/on computer [1]
Film is not required [1]/no need for developing [1]
Time/date can be added to picture [1]
Pictures can be previewed before printing [1]
View on TV [1]
Can take a video [1] [2]

(b)

Statement	Tick (✓)
Most touch screens show blurry images.	
A touch screen can be used as an input device.	✓
A touch screen requires a high level of ICT knowledge to use.	
A touch screen can be used as an output device.	✓

[2]

More than 2 ticks = 0 marks

(c) **TWO** from:
Access the Internet (including examples, e.g. e-mail) [1]
Buy services/films/products (including examples of buying using remote control/keyboard) [1]
Vote [1]/Interact directly with TV programmes [1], e.g. pausing live TV/changing viewing angle/entering competitions
Play games [1] NOT press red button [2]

			AVAILABLE MARKS
	<p>(d) ONE from: Better picture/sound quality [1] On screen TV guide [1] Less interference [1] Program planner/favourites [1] More TV channels [1]</p>	[1]	7
5	<p>(a) Use a scanner/scan/scanning/using a digital camera to take photo [1]</p> <p>(b) Copyright [1], Designs and Patents (Act) [1]</p> <p>(c) (i) A program/file/software [1] which is designed to (deliberately) damage a computer (system) [1] corrupt files [1] attack the system [1] damage files/data [1] e.g. of damage [1]</p> <p>(ii) TWO from: Buy/install antivirus software (accept also names of products known to be antivirus software, e.g. Norton) [1] virus scanner [1] Scan e-mails/attachments/do not download from potentially harmful sites/unknown source [1] not open [1] Use a firewall [1] Update virus software regularly [1] run virus checks/scans [1] run computer checks [1] virus detection/protection [1] only download from safe and trusted sites [1]</p> <p>(iii) Computer Misuse Act</p>	[1] [2] [2] [2]	8
Question 5 – Quality of Written Communication			
	<p>[3] Highly accurate spelling and punctuation. A good range of technical terms. [2] Accurate spelling and punctuation. Some technical terms used. [1] Reasonably accurate spelling and punctuation. Limited range of specialist terms used. [0] Question not attempted.</p>		3
6	<p>(a) ONE from: Look for https [1] Look for padlock symbol [1] NOT lock Look for verisign symbol [1]</p> <p>(b) ONE from: No shop visit required/can be done anywhere/anytime [1] He can read it immediately [1]/available immediately [1] Not affected by postal strike/speed of post/cannot get lost in post [1] No postal charges [1] Repeatedly download [1] Read it on an electronic device [1] Environmental advantage [1] It won't run out of stock [1]</p>	[1] [1]	

- (c) (i) **ONE** from:
 (Unique) name given to authorised users [1]/account holder/allow you to login [1]
 A code given to authorised users/registered members [1] [1]

- (ii) **TWO** from:
 Ensures only authorised users can access the account [1]
 Prevents hacking fraud [1]
 Provides security for user account details [1]
 (Passwords) prevent unauthorised login [1] [2]

(d)

Statement	Tick (✓)
Hacking involves placing data on the Internet	
Hacking can be prevented by a firewall	✓
Hacking involves unauthorised users using the system	✓
Hacking breaks the Data Protection Act	

[2]

7

Question 6 – Quality of Written Communication

- [2] Accurate spelling and punctuation. Some specialist terms used.
 [1] Reasonably accurate spelling and punctuation. Limited range of specialist terms used.
 [0] Question not attempted.

2

7 (a)

Filename	Statement				
Assignment 1	has been created by a word processor	has been created by a graphics package	has been created by presentation software	has been created by a spreadsheet package	is a folder
Blue hills	has been created by a word processor	has been created by a graphics package	has been created by presentation software	has been created by a spreadsheet package	is a folder
Assignment 2	has been created by a word processor	has been created by a graphics package	has been created by presentation software	has been created by a spreadsheet package	is a folder
Assignment 3	has been created by a word processor	has been created by a graphics package	has been created by presentation software	has been created by a spreadsheet package	is a folder
database	has been created by a word processor	has been created by a graphics package	has been created by presentation software	has been created by a spreadsheet package	is a folder

[4]

(b) 0.92 Megabytes

9.2 Megabytes

92 Megabytes

920 Megabytes

[1]

(c) (i) Backup is a copy of existing (original) files/data/work/document/folder [1]

The original data/file is lost/deleted/corrupted/damaged the copy can be used/make reference to a virus accepted [1]

[2]

(ii) ONE from:

Large/high storage capacity/space [1]

Portable [1]

Physically robust/not easily damaged [1]

WORM feature of CD-R [1]

[1]

(d) (i) 4.7 (5GB) Gb/16GB [1] 4–7GB/16–17GB [1]

[1]

(ii) Both optical storage devices [1]

Can only be written to once [1]

[1]

AVAILABLE MARKS

10

- 8 (a) **TWO** from:
 Data on the chip can be changed/updated [1]
 Smart chip holds more data [1]
 Smart chip technology is more secure [1]
 Small sized chip can fit easily on the card [1]
 PIN protection [1] NOT Chip n' Pin [2]

(b)

Data on a magnetic stripe can be read by humans	Data on a magnetic stripe can be damaged by magnetic fields	Magnetic stripes can hold very large quantities of data	Data on a magnetic stripe must be read by a special reader
---	---	---	--

[2]

- (c) (i) Automated/Automatic teller/telling machine [1]

- (ii) **TWO** from:
 Shorter queues in bank [1]
 Less staff required in bank [1]
 Less money required on overheads [1]
 Staff can be allocated other tasks [1]
 May result in less branches [1] [2]

- (d) **TWO** from:
 She can transfer money from/to her account/cards [1]
 Manage finance/money [1]
 She can pay bills [1]
 Block cards [1]
 E-mail bank [1]
 Check/get statements [1]/view account details [1]
 Set up direct debits [1]
 Check balance/track money in account [1] [2]

(b)

Item	Statement
Search Engine	<input type="checkbox"/> To upload and download files <input type="checkbox"/> To display webpages <input checked="" type="checkbox"/> To find webpages <input type="checkbox"/> To get connected to the Internet <input type="checkbox"/> To allow data transfer from his PC to the Internet
Web Browser	<input type="checkbox"/> To upload and download files <input checked="" type="checkbox"/> To display webpages <input type="checkbox"/> To find webpages <input type="checkbox"/> To get connected to the Internet <input type="checkbox"/> To allow data transfer from his PC to the Internet
Telecommunications link	<input type="checkbox"/> To upload and download files <input type="checkbox"/> To display webpages <input type="checkbox"/> To find webpages <input type="checkbox"/> To get connected to the Internet <input checked="" type="checkbox"/> To allow data transfer from his PC to the Internet

[3]

AVAILABLE
MARKS

(c) (i) Internet Service Provider [1]

(ii)

An ISP would	Tick (✓)
Install software for the user	
Provide an e-mail service	✓
Provide different bandwidth options	✓
Maintain the user's PC	
Provide security protection	✓
Regularly check the performance of the user's PC	

[3]

More than 3 ticks = 0 marks

10 (a) (i) http: Hypertext transfer protocol [1]/protocol used for the webpage [1] Internet protocol [1] [1]

(ii) www: pcglobe.com server on the web [1]/website address [1] domain name [1] website name [1] [1]

(iii) index.htm: file on the server [1] page on the website [1] [1]

(b) (i) ONE from:
Link/text/picture/icon which when clicked takes you to a different (web)site/(web)page/file or a different part of the Internet [1] [1]

(ii) ONE from:
Any of the buttons, e.g. "Calendar" [1]
Any of the e-mail links [1] [1]

(iii) Advantage: Good user interface/pleasing for users [1]
Disadvantage: Slower loading of webpages [1]/more webspace required [1] [2]

(iv) TWO from:
Tables/Frames [1]
Font size and type/style [1] for reference to text features
Template [1]/theme/cascading style sheets [1]
Borders [1]
Graphics [1]/pictures/images/clipart [1]
Navigation bar/buttons/Interactive (Flash) buttons [1]/menu [1]
mailto link [1]/e-mail link [1]
Banner [1]
Marquee [1] [2]

AVAILABLE
MARKS

8

9

- 11 (a) Any row/record correctly highlighted – no marks for multiple rows highlighted [1]
- (b) 11 [1]
- (c) (i) OrderID – Alphanumeric/Character/Text [1]
- (ii) Collected – Boolean/Yes/No/Text [1]
- (d) (i) query [1]
- (ii) – greater than 80 or > 80 [1]
- (e) (i) Fieldnames/Headings are not the same in both tables/some headings are missing in the second table/data types may not be the same [1]
- (ii) Form [1]
- (f) Filter/Query/Select/Search customers [1] where **Collected = No** [1]
Import/Merge onto report/letter [1] [2]
- 12 (a) Merged/Bold [1]
- (b) Currency [1]
- (c)
- | Formula | Tick (✓) one only |
|----------|-------------------|
| =E15*F15 | ✓ |
| =E15+F15 | |
| =C15*D15 | |
- [1]
- (d) E17 [1] [1]
- (e) AVERAGE function SUM function MAX function [1]
- (f)
- | Formula | Tick (✓) one only |
|-----------------------------|-------------------|
| =IF(D7 >= 150, "Yes", "No") | |
| =IF(D7 < 150, "Yes", "No") | |
| =IF(D7 > 150, "Yes", "No") | ✓ |
- [1]
- (g) (i) Use the SORT facility [1] accept graphic of sort icon [1] [1]
- (ii) Alphabetical Order A-Z/Ascending [1] NOT filter [1]

10

(h) (i) B5:B16/B6:B16 [1]; D5:D16/D6:D16 [1]; G5:G16/G6:G16 [1] [3]

(ii) Blonde Shampoo [1] [1]

AVAILABLE
MARKS

12

13




Definition	Term
Software which includes windows, icons, menus and pointers	Graphical User Interface
A device which allows the electronic transmission of paper documents	Facsimile
Communicating across a network using sound and image	Video conferencing
A method of making a file smaller in size	Compression
A method used to prevent websites and webpages from being accessed	Web Filtering
Sending an e-mail to recipients when they can only see their own details and not those of other recipients	Blind Carbon Copy
An output device which uses toner to place images on paper	Laser Printer
A storage medium which can only be read from	CD-ROM
A picture file which has not been optimised for use on the Internet	Bitmap
A method of placing files on the Internet	Uploading

[10]

10

14 (a)

AVAILABLE
MARKS

Image	Effect
<p>Header</p>  <p>Electronic Supermarket- 21 Long Road - Bangor - Co Down www.electronicssupermarket.com email: office@electronicssupermarket.com</p>	<p>Rotate</p>
<p>Header</p>  <p>Electronic Supermarket 21 Long Road Bangor Co Down www.electronicssupermarket.com email: office@electronicssupermarket.com</p>	<p>Crop</p>
<p>Header</p>  <p>Electronic Supermarket 21 Long Road Bangor Co Down www.electronicssupermarket.com email: office@electronicssupermarket.com</p>	<p>Flip</p>

[3]

(b) (i) **TWO** from:

Italic [1]

Bold [1]

Right/Left/Centre justify [1] Align [1]

[2]

(ii) **ONE** from:

Faster than typing contact information [1]

More professional finish will be achieved [1]

Contains standard information [1]

Gives clients contact details for company [1]

[1]

6

- 15 (a)** The part of the computer where all data is processed [1] and tasks/
system tasks are carried out [1]
Processes instructions/commands/data/information [1]
Manipulates data/performs arithmetic or logic operations/calculations
[1]
Performs operations on data [1]
Loads/runs programs/applications/software [1]
Brain of the computer/controls or runs the computer [1]
Has a control unit, ACU and main memory [1] [2]
- (b)** The faster the processor speed the more instructions can be carried
out [1] (comparative statement needed)
The faster the processor speed the better the performance [1] [1]
- (c) TWO** from:
Input devices [1]
Output devices [1]
Memory stick/storage devices, for transferral of data [1]
Communication devices e.g. router [1]
Charging portable devices [1]
Transferring data [1] [2]
- (d) (i) ONE** from:
No need to “plug in” [1]
Long battery life means they can use it all day [1]
Can work anywhere in the school [1]
Know in advance they have 8 hours [1]
Reference to time it can be used without charging [1] [1]
- (ii) ONE** from:
Light weight therefore easy to carry around [1]
Portable [1] [1]

(e)

Task	TV-Out	Hard Disk	Optical Drive	Wireless Enabled
Connecting to the network				✓
Installing new software			✓	
Connecting to a TV	✓			
Storing coursework files		✓		

More than one tick in each row = 0 marks

[4]

Question 15 – Quality of Written Communication

[2] Accurate spelling and punctuation. Some specialist terms used.

[1] Reasonably accurate spelling and punctuation. Limited range of specialist terms used.

[0] Question not attempted.

AVAILABLE MARKS

11

2

Total

140

