

Candidate Name	Centre Number	Candidate Number

WELSH JOINT EDUCATION COMMITTEE
General Certificate of Secondary Education



CYD-BWYLLGOR ADDYSG CYMRU
Tystysgrif Gyffredinol Addysg Uwchradd

178/01*265/01

GCSE INFORMATION AND COMMUNICATION TECHNOLOGY PAPER 1
GCSE (SHORT COURSE) INFORMATION AND COMMUNICATION TECHNOLOGY

(Foundation Tier – Grades G to C)

P.M. TUESDAY, 22 May 2007

(1 hour)

Examiner's Use Only	
Total Mark	

INSTRUCTIONS TO CANDIDATES

Write your name, centre number and candidate number in the spaces at the top of this page.

Answer **all** questions.

Write your answers in the spaces provided in this booklet. Where the space is not sufficient for your answer, continue the answer at the back of the book, taking care to number the continuation correctly.

INFORMATION FOR CANDIDATES

The number of marks is given in brackets at the end of each question or part-question.

No certificate will be awarded to a candidate detected in any unfair practice during the examination.

Answer **all** questions.

1. Tick (✓) **two** boxes to show which of the following are features of *email*. [2]

	Tick (✓) two boxes only
CAD	
Address books	
Drawing graphs	
Scanners	
Attachments	

2. A company uses the Internet.

- (a) State what is meant by *the Internet*. [1]

.....

.....

- (b) The company uses the following facilities of the Internet. [3]

SHOPPING CART **CHAT LINES**
COOKIES **SEARCH ENGINE** **WEBSITE**

State which of the above is the *most suitable* facility to:

- (i) advertise products,
- (ii) look for information,
- (iii) allow customers to buy goods online.

Do not use any facility more than once.

3. Data is entered into a computer using OMR and OCR.

(a) Tick (✓) **one** box to show which is a suitable example of the use of **OMR**.

[1]

	Tick (✓) one box only
Scanning postcodes.	
Reading bank cheques.	
Taking a class attendance register.	

(b) Tick (✓) **one** box to show which is a suitable example of the use of **OCR**.

[1]

	Tick (✓) one box only
Scanning postcodes.	
Reading bank cheques.	
Taking a class attendance register.	

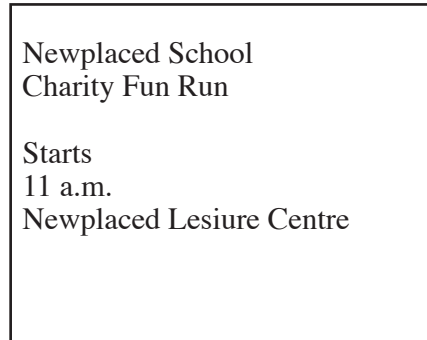
(c) Shops use barcodes to enter data.

Give **two** items of data *encoded* in a barcode.

[2]

Item 1 Item 2

- 4. The organiser of a New Year’s Day charity fun run has produced the first draft of a poster to advertise the event.



He uses some of the features of his DTP (Desktop Publishing) software to improve the poster. This improved poster is shown below.



- (a) Give **four** features of the DTP software used to improve the poster. [4]

.....

.....

- (b) Give an important item of data **not** found on the poster. [1]

.....

- (c) Give **two other different types** of documents which could help with the organisation of the fun run. [2]

.....

- (d) The organiser also uses the facilities below. [2]

- A Mailmerge
- B Spellcheck
- C Online thesaurus
- D Page setup

Select the most suitable facility for **each** of the following tasks by writing the correct letter in the table below.

The first one has been done for you.

Check the spelling is correct.	B
Take data from a database and put it into a letter automatically.	
Suggest different words with a similar meaning.	

5. A garage uses a spreadsheet to calculate customer bills. Part of the spreadsheet is shown below.

	A	B	C	D	E	F
1	Car	Cost of Standard Service	Cost of Extra Parts	Cost of Extra Labour	VAT	Total Bill
2	Volvo	£250	£50	£50	£61.25	£411.25
3	Ford	£175	£28	£10	£37.28	£250.28
4	Land Rover	£245	£120	£25	£68.25	£458.25
5	Mazda	£120	£55	£25	£35.00	£235.00
6	Peugeot	£100	£35	£50	£32.38	£217.38
7	Mercedes	£350	£200	£50	£105.00	£705.00

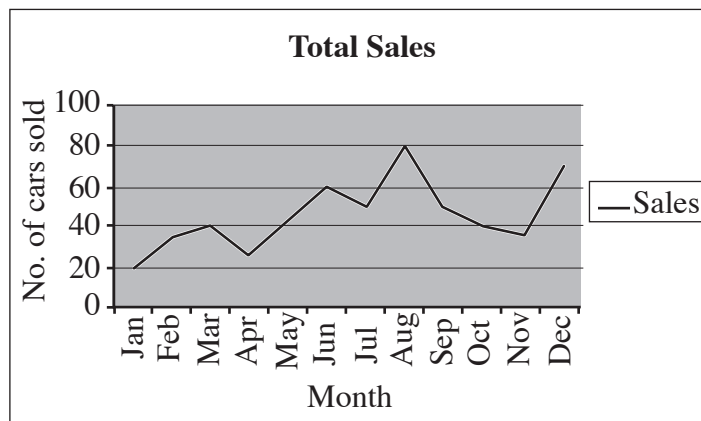
(a) Give the cost of extra parts for Land Rover in cell C4. [1]

(b) Which of the following formulas could be used to give the Total Bill in Cell F5? [1]

- A =B5+C5+D5+E5
- B =SUM(F2:F7)
- C =SUM(B5:E5)
- D =B5+C5+E5+F5

.....

(c) The manager uses another spreadsheet to produce the graph of Total Sales shown below.



(i) State what type of graph this is. [1]

(ii) Give **one other type** of graph that could be used to show this data. [1]

.....

(d) *Other than drawing graphs, give two advantages of using a spreadsheet in managing the garage.* [2]

Advantage 1

.....

Advantage 2

.....

6. A supermarket has a computerised stock control system.

A *master file* of stock is kept on the computer system.
Part of this file is shown below.

Stock Code	Stock description	No. in stock	Re-order Level
7856	Eggs	10	20
8987	Sugar	151	150
2202	Bottled water	200	180
2512	Tomato sauce	75	50

(a) State which item of stock will need to be re-ordered. [1]

(b) Shops allow customers to pay for goods at the Point of Sales (POS) with *cash*.

Give **three other different** methods of paying for goods at the POS. [3]

Method 1

Method 2

Method 3

(c) Give **two** advantages to the *customer* in using POS systems. [2]

Advantage 1

.....

Advantage 2

.....

(d) Give **one** disadvantage to the *customer* in using POS systems. [1]

.....

.....

7. A furniture store keeps details of its customers and their orders in a database, part of which is shown below.

Customer Number	Name	Item code	Size	Cost	Delivery
67876	R. Evans	786	Large	£200	Y
54765	H. Smith	779	Small	£45	N
95632	A. Khaliq	667	Large	£805	Y
84543	D. Jones	896	Large	£567	Y

- (a) Give the name of any *keyfield* shown in this database. [1]
- (b) Give the name of one '*Boolean*' field shown in this database. [1]
- (c) The store offers free delivery for all orders *greater than* £200.
How many customers shown above would receive free delivery? [1]
- (d) The warehouse manager wants to find details of all goods to be delivered.
Write down the field and the search data needed to get this data from the database. [1]

<i>Fieldname</i>	<i>Search criteria</i>

- (e) Describe a suitable **validation** method for the *Size* field. [1]
.....
- (f) The manager uses this data to give him *information* about customers.
Tick (✓) **one** box to show which sentence best describes *information*. [1]

	Tick (✓) one box only
Information is raw facts and figures.	_____
Information is processed data.	_____
Information is the news.	_____

- (g) Give **one** advantage of storing customer data on a computer database. [1]
.....
.....

8. A gardener grows valuable tropical flowers in his greenhouse. A computer controls the greenhouse and is programmed to respond to certain events.

(a) Describe how the computer could be programmed to respond if a thief tried to break into the greenhouse.

Sensor [1]

Computer response [2]

.....

.....

.....

(b) Give **two** *other* sensors which could be used to control *growing conditions* in this greenhouse.

Sensor 1 [1]

Sensor 2 [1]

9. A student is using computer software and hardware to help her produce a geography project.

(a) Describe **three** *different* ways she could use ICT software or hardware to help her do this. *Two examples have been done for you.*

Use spreadsheet software to produce a graph.

Use a printer to print the report.

(i) [1]

(ii) [1]

(iii) [1]

(b) Most programs used in school have a Graphical User Interface (GUI).

Give **two** features of a GUI which makes programs easier to use. [2]

Feature 1

Feature 2

10. A company selling books has replaced its standalone computers with a network.

(a) Give **two different** advantages of a network over standalone computers. [2]

Advantage 1

Advantage 2

(b) Give **two** security problems when using networks and describe how these problems can be prevented.

Security problem 1 [1]

Prevention [1]

Security problem 2 [1]

Prevention [1]

11. Banks offer customers many services including Automatic Teller Machines (ATMs) and online (Internet) banking.

(a) *In addition to getting cash*, give **three other** services which can be obtained at an ATM. [3]

Service 1

Service 2

Service 3

(b) Give **two different** advantages of online banking. [2]

Advantage 1

Advantage 2

