

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, 23 May 2006

(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.

1. A designer's first attempt at producing a poster to advertise a fashion show is shown below.

Fashion Show
at
The Design Studio
on
22nd of December
Time: 12 o'clock

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



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

(b) The fashion designer uses the Internet to send email invitations to all her customers.

(i) What is '*The Internet*'?

[1]

.....

.....

(ii) What is email (*electronic mail*)?

[1]

.....

(iii) Tick **two** items of data which are contained in an email address.

[2]

	Tick two boxes
Web page	
Name	
URL	
Service provider	

(c) Give **one** advantage of sending these invitations by email rather than by the normal post.

[1]

.....

.....

2. A student is planning to furnish a flat. He has priced three options as shown in the spreadsheet below.

	A	B	C	D
1	Goods	Option A	Option B	Option C
2	Flooring	£1,000	£500	£800
3	Curtains	£200	£300	£280
4	Sofa	£1,800	£1,000	£500
5	Chair	£300	£300	£340
6	Lamp	£100	£50	£60
7	Coffee table	£200	£70	£120
8	Rug	£200	£180	£200
9	TV	£600	£200	£500
10	Total	£4,400	£2,600	£2,800
11	10 % Discount	£440	£260	£280
12	Total Bill	£3,960	£2,340	£2,520

(a) Give the amount found in cell B7. [1]

(b) Which of the following formulas could be used to give the **Total** for **Option A** in CELL B10? [1]

- A =B2+B3+B4+B5+B6+B7+B8+B9
 B =B2+C2+D2
 C =SUM(B2:B12)
 D =SUM(B2:B9)
 E =TOTAL(B2:B10)

.....

(c) He changes the cost of the sofa in **Option A** from £1800 to £1500.

Give **two other** cells that would also change. [2]

.....

(d) Which of the following formulas could the student have typed in to give the 10 % discount in Cell B11? [1]

- A =B10 - 10
 B =(B10/100) * 90
 C =B10 * 0.9
 D =B10 * 0.1

.....

- (e) Tick **two** *advantages* of using a spreadsheet for calculating the different furnishing options. [2]

	Tick two advantages
The student gets the best deal.	
Calculations are correct if formulas are correct.	
The student can try out other options and the computer will recalculate the totals.	
The student doesn't have to do anything.	

3. Banks issue different types of plastic cards to customers.

(a) Give **two** different *types* of plastic cards used by bank customers. [2]

(i)

(ii)

(b) State **two** crimes connected with the use of such cards and for each, describe **one** method of prevention. [4]

Crime 1:

Prevention:

.....

Crime 2:

Prevention:

.....

(c) Cards are used to obtain cash from automatic teller machines (ATMs) commonly called *cashpoints*.

(i) Give **two** advantages to *customers* in using ATMs to obtain cash rather than going into the bank [2]

Advantage 1:

.....

.....

Advantage 2:

.....

.....

(ii) Give **two** *other* services, apart from obtaining cash, that are available at cashpoints. [2]

Service 1:

Service 2:

4. A shop has four standalone computers. The owner has decided to network these computers.

(a) Give **two** *advantages* of a network for the shop owner. [2]

Advantage 1:
.....

Advantage 2:
.....

(b) Give **four** rules staff working in the shop must follow when using the *network*. [4]
Do not include rules for the Internet.

(i)

(ii)

(iii)

(iv)

(c) Give **two** rules staff working in the shop must follow when using the *Internet*. [2]

(i)

(ii)

5. Computers are increasingly used in the home.

Give a suitable example of how a family could make use of:

(a) **Database software:**
.....
..... [1]

(b) **Photographic software:**
.....
..... [1]

6. A student enters *data* into a database. Part of this database is shown below.

Code	Town	Date of visit	Special feature	Type	Coastal
1	Harlech	13/04/05	Castle	Tourist	Y
2	Newquay	15/04/05	Harbour	Tourist	Y
3	Brecon	16/04/05	National Park	Rural	N
4	Port Talbot	17/04/05	Steel Mill	Industrial	N
5	Rhyl	12/04/05	Sun Centre	Tourist	Y
6	Lampeter	14/04/05	College	Rural	N
7	Aberystwyth	15/04/05	Pier	Tourist	Y

(a) State what is meant by *data*. [1]

.....

(b) Give the number of fields in this database. [1]

(c) Give the name of the *Keyfield*. [1]

(d) A list of data types used for the fields in this database is given below.

Yes/No String Date Number

Using this list, give the data type for **each** field shown in the table below. [4]
The first one is done for you.

Field	Data type
Town	String
Code	
Type	
Date of visit	
Coastal	

(e) The database will be sorted in *ascending* order of **Date of visit**.

Give the date which would appear at the *top* of the list. [1]

(f) The student wants to find the details of all *rural* towns.
Write down the *field* and the *search* data needed to get the data from this database. [1]

.....

7. Weather forecasts can be obtained on teletext services or interactive services.

(a) Give **one** advantage of using *interactive* services rather than *teletext* services to obtain the weather forecasts. [1]

.....
.....

(b) People can use their interactive digital television to buy certain types of goods.

Tick which **two** of the following goods are most likely to be bought using an interactive digital television service. [2]

	Tick two boxes
Buy a holiday	
Buy a house	
Buy a bike	
Buy a haircut	

(c) In addition to *buying goods* and *receiving many extra TV channels*, interactive digital television offers many other services.

Give **two other different types** of service available on interactive digital television. [2]

.....
.....

(d) Give **one disadvantage** of interactive digital television. [1]

.....
.....

8. The following are three different methods of entering data into a computer.

OMR OCR MICR

Using this list complete the following sentences.

..... is used for reading the number codes on the bottom of bank cheques.

..... can be used for taking the class register in a school.

..... is used to read postcodes.

[3]

9. A new e-commerce company wants to sell videos and music online.

Use the list given below to complete the table showing the most suitable facility needed for **each** task. [3]

Broadband Web page Media company
Shopping basket Virus protection Secure payment site

Task	Facility needed
Advertising the videos and music for sale on the Internet.	
Storing details of the videos and music you are going to buy.	
Paying for videos and music.	

10. Many shops now use Point of Sales (POS) and automatic stock control systems.

(a) Goods bought at the POS have barcodes.

Tick which **two** items of data are contained in the barcode.

[2]

	Tick two boxes
Sell by date	
Price	
Reorder level	
Check digit	
Colour	
Product code	

(b) State what is meant by *reorder level*.

[1]

.....

.....

.....

For continuation only.

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