

**GENERAL CERTIFICATE OF SECONDARY EDUCATION
 INFORMATION AND COMMUNICATION TECHNOLOGY**

Paper 1 (Foundation Tier)

TUESDAY 20 MAY 2008

Afternoon
 Time: 1 hour

Candidates answer on the question paper

Additional materials: No additional materials are required



Candidate Forename

Candidate Surname

Centre Number

Candidate Number

INSTRUCTIONS TO CANDIDATES

- Write your name in capital letters, your Centre Number and Candidate Number in the boxes above.
- Use blue or black ink. Pencil may be used for graphs and diagrams only.
- Read each question carefully and make sure that you know what you have to do before starting your answer.
- Answer **all** the questions.
- Do **not** write in the bar codes.
- Write your answer to each question in the space provided.

INFORMATION FOR CANDIDATES

- The number of marks for each question is given in brackets [] at the end of each question or part question.
- No marks will be awarded for using brand names of software packages or hardware.
- The total number of marks for this paper is **60**.

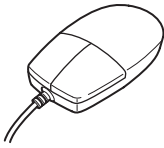
FOR EXAMINER'S USE

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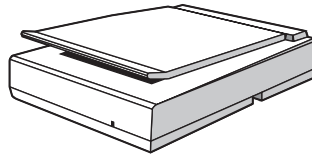
This document consists of **10** printed pages and **2** blank pages.

1 Five devices are shown below.

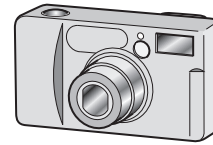
Mouse



Scanner



Digital Camera



Joystick



Microphone



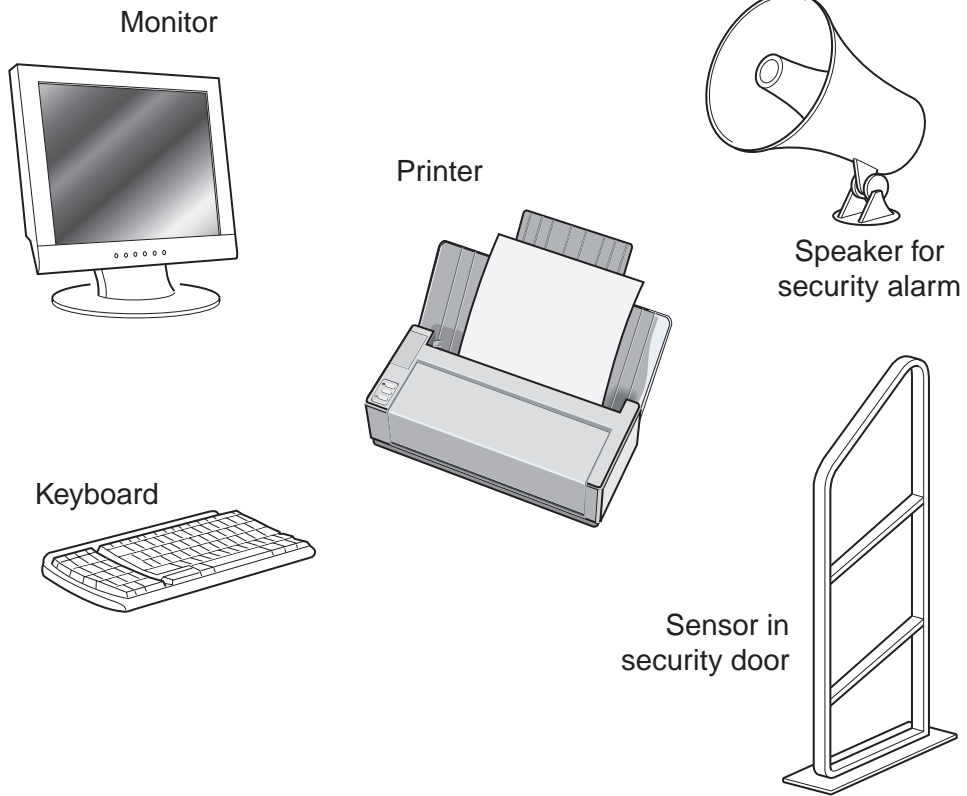
Complete the table below to show which of these devices is most suitable for each task.

The first one has been done for you.

Task	Device
Capturing original images	Digital camera
Importing an image from a printed magazine	
Moving an object in a game	
Capturing sounds	
Selecting an option from a menu	

[4]

2 The following devices are used in a school library.



Tick **one** box in each row to show whether the device is an input or an output device.

Device	Input (✓)	Output (✓)
Monitor		
Keyboard		
Printer		
Sensor in security door		
Speaker for security alarm		

[5]

- 3 Tick **one** box in each row to show whether each item is hardware or software.

Item	Hardware (✓)	Software (✓)
CD-ROM drive		
Internet browser		
Central Processing Unit		
Spreadsheet		

[4]

- 4 Use the processes listed to complete the table below.

The first one has been done for you.

editing
exporting
formatting
importing
scanning
searching
sorting

Task	Process
Copying an image from a clipart library into a document.	<i>importing</i>
Finding answers to questions using a database.	
Listing records in a database in alphabetical order.	
Changing the value in a cell in a spreadsheet.	
Centring some words on a line.	

[4]

5 Complete each of the following to show **one** way of avoiding health problems when using computers. Each answer must be different.

To avoid eye strain I should

.....

To avoid back ache I should

.....

To reduce the risk of RSI I should

..... [3]

6 A graphic artist is using a computer to create a picture. She uses the crop feature of her graphics package to remove part of the image.

State what she could use each of the following features for.

Layer

.....

.....

Flip

.....

.....

Resize

.....

.....

Fill

.....

..... [4]

7 Ruth is organising the annual school play and keeps a database of the cast details to show when they are available for rehearsals. Her database is shown below.

Forename	Surname	Gender	Form	Year Group	Available
Jaswinder	Sidhu	F	S	10	Tuesday
Imran	Khan	M	U	10	Wednesday
Colette	Jones	F	S	9	Tuesday
Joanne	Smith	F	T	10	Monday
Paul	Charlton	M	W	11	Tuesday

(a) Ruth has used M and F instead of Male and Female in her database.

Give **two** reasons why she has done this.

Reason 1

.....

Reason 2

..... [2]

(b) When Ruth entered the cast details into her database, she verified them.

(i) Give **one** way that Ruth could verify her data.

.....

..... [1]

(ii) Why does Ruth verify her data?

.....

..... [1]

(c) Ruth sorts the data into ascending order of year group.

Which person now appears at the top of the list?

..... [1]

(d) Ruth uses the following query on the database.

Form = S OR Form = U

How many students does she find?

..... [1]

(e) Ruth wants to view the details of the girls in Year 9 who are available for rehearsal on Tuesdays.

Write a suitable query that she could use to find these in her database.

.....
..... [4]

(f) Describe **three** ways that Ruth could use ICT to advertise the play.

Way 1
.....
.....
.....

Way 2
.....
.....
.....

Way 3
.....
.....
..... [6]

8 Photo-editing software can be used to alter photographs.

Explain why these alterations may **not** be appropriate.

.....
.....
.....
..... [2]

- 9 Phillip is buying ingredients for his cookery lesson. He keeps the details of his spending in the spreadsheet shown below.

	A	B	C	D
1	Item	Unit price (p)	Amount	Total (£)
2	Flour	96	3	2.88
3	Eggs	24	6	1.44
4	Butter	106	2	2.12
5	Chocolate buttons	3	40	1.40
6			Total	
7				
8				

- (a) Give the cell reference of **one** cell containing a formula.

..... [1]

- (b) The price of flour goes down to 95p.

Give the cell reference of the cell he must change.

..... [1]

- (c) Give the cell reference of **one** cell that will change automatically if the price of flour is changed.

..... [1]

- (d) Phillip now wants to calculate the total he has spent.

Write down the most suitable formula for calculating the total in cell D6.

..... [2]

- 10 Complete the table below to show the process used to carry out each of the tasks shown.

Task	Process
Finding and correcting typing errors in the text of a letter.	
Reading through a document to look for errors and omissions.	
Stopping unreasonable data being entered into a database.	
Copying a formula from one cell of a spreadsheet into many other cells.	

[4]

11 (a) Give **two** advantages of using a flight simulator for the training of pilots.

Advantage 1

.....

Advantage 2

..... [2]

(b) Give **one** disadvantage of using a flight simulator for the training of pilots.

.....

..... [1]

12 What is the purpose of a modem?

.....

..... [1]

13 Web pages often contain hyperlinks.

What is a hyperlink?

..... [1]

14 A school has provided laptops for its students. They can use them at school or at home.

(a) Give **two** advantages to the students of using these laptops for their school work.

Advantage 1

.....

Advantage 2

..... [2]

(b) State **two** problems that may arise from providing the students with these laptops.

Problem 1

.....

Problem 2

..... [2]

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