

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

2357/01

Paper 1
(Foundation Tier)

**Tuesday 19 May 2009
Afternoon**

Duration: 1 hour

Candidates answer on the question paper

OCR Supplied Materials:

None

Other Materials Required:

None



Candidate Forename		Candidate Surname	
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Centre Number						Candidate Number				
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INSTRUCTIONS TO CANDIDATES

- Write your name clearly in capital letters, your Centre Number and Candidate Number in the boxes above.
- Use 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.
- Additional answer space is available on the lined pages at the back of this booklet. Answers on these pages **must** be clearly numbered.

INFORMATION FOR CANDIDATES

- The number of marks is given in brackets [] at the end of each question or part question.
- The total number of marks for this paper is **60**.
- This document consists of **12** pages. Any blank pages are indicated.

1 Circle **two** pieces of information needed to log into a network.

- age
- gender
- name
- password
- telephone number
- user ID

[2]

2 The list shows some of the components of a desktop computer system.

- central processing unit
- CD rewriter
- hard disk
- joystick
- laser printer
- monitor
- mouse
- RAM

(a) Choose the most suitable component from the items in the list for each of the following tasks.

It stores data when the computer is switched off.

.....

It is used to output hard copies of documents.

.....

It is used to choose an item from a menu when using a word processor.

.....

It is used to control movement of an object when playing a computer game.

.....

It carries out all decisions and calculations of the computer system.

..... [5]

The computer system has more components apart from those in the list.

(b) (i) Give **one** additional component that would be needed to input text.

.....

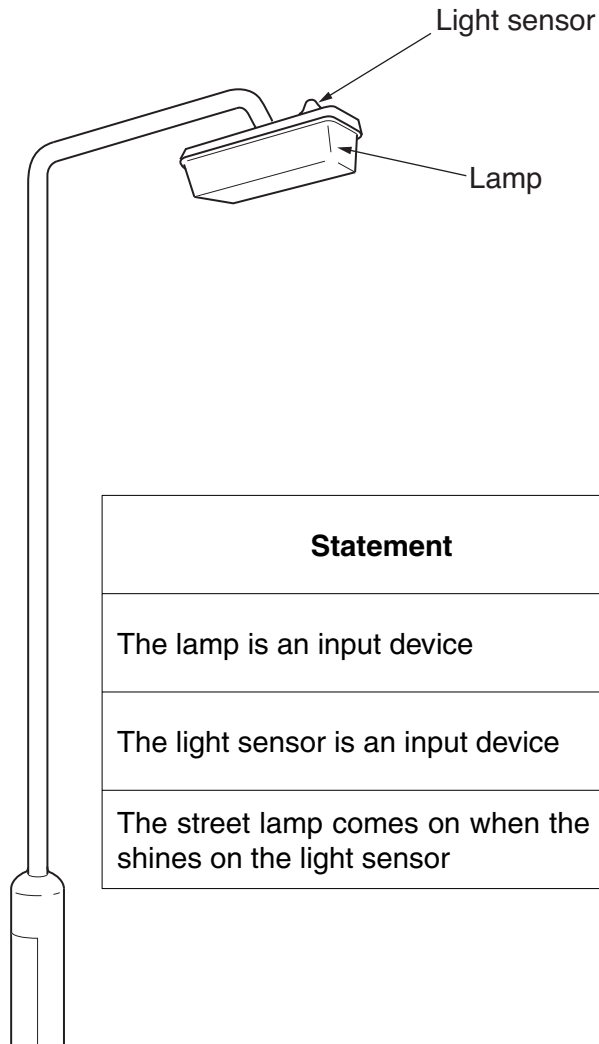
(ii) Give **one** additional component that would be needed to output sounds.

..... [2]

3

3 The lights in a street are usually switched on and off automatically.

For each of the statements, tick **one** box in each row to show whether it is true or false.



Statement	True (✓)	False (✓)
The lamp is an input device		
The light sensor is an input device		
The street lamp comes on when the sun shines on the light sensor		

[3]

4 Jonathan makes large video files using his computer.

For each of the statements, tick **one** box in each row to show whether it is true or false.

Statement	True (✓)	False (✓)
He should make a backup at regular intervals.		
Backups should be kept next to the computer.		
He can use a floppy disk for his backups.		

[3]

5 Tick **one** box in each row to show why the item is used in a computer room.

Item	To reduce the risk of		
	back problems (✓)	eyestrain (✓)	RSI (✓)
adjustable chair			
high resolution monitor			
wrist rest			

[3]

6 The spreadsheet below is used to work out the costs of buying some new items for a computer room.

	A	B	C	D	E
1					
2	Item	Number	Price Each	Total Cost	
3					
4	Monitor	29	£89.67	=B4*C4	
5	Mouse	26	£6.18		
6	Mouse mat	26	£3.25		
7	Chair	30	£9.95		
8					
9			Total Cost of all items		
10					

(a) Give the cell reference of the cell that contains the number of chairs to be bought.

..... [1]

(b) What does the formula in cell D4 do?

.....
 [2]

(c) A formula similar to that in cell D4 has to be entered into cells D5, D6 and D7.

Describe a quick method of doing this.

.....
 [2]

(d) A formula is to be used in cell D9 to calculate the total cost of all the items.

Give the most suitable formula for cell D9.

..... [2]

(e) Cells D4 to D9 should be formatted as currency.

(i) Describe how this is done.

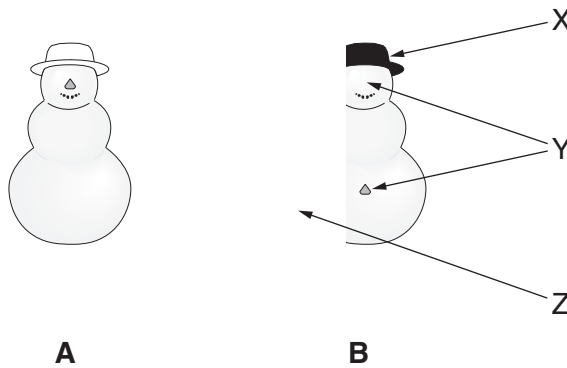
.....
.....
.....
.....
.....
.....
..... [3]

(ii) Give **one** advantage of using formatting to display the numbers as currency.

.....
..... [1]

7 Image A has been altered into image B in a graphics package.

State **three** software tools in the graphics package that have been used to alter the image from A into B.

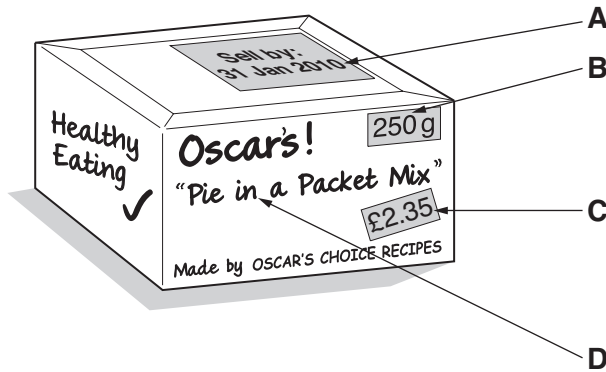


At X

At Y

At Z [3]

8 A database is being created to store details of grocery items. One item is shown below.



(a) Tick **one** box in each row to show the most suitable data type to be used for storing the data shown.

Data at	Real Number (✓)	Integer (✓)	Text (✓)	Date (✓)
A				
B				
C				
D				

[4]

(b) The database is to include a field for healthy eating. Data is to be entered into this field as 'Y' or 'N' instead of in full as 'Healthy Eating' or 'Not Healthy Eating'.

Give **two** reasons why this is done.

Reason 1

.....

Reason 2

..... [2]

9 A new graphics package is to be developed.

(a) Give **three** pieces of evidence that the developer could use to prove that the package meets user requirements.

- 1
-
- 2
-
- 3
- [3]

(b) State **three** methods that could be used to try to prevent illegal copying of the graphics package software.

- 1
-
- 2
-
- 3
- [3]

(c) Give **two** ways that buyers can avoid the risk of viruses when obtaining and installing the graphics package.

- 1
-
- 2
- [2]

10 A family has a number of computers in their home connected together in a network.

(a) Give **three** advantages to the family of having these computers connected in a network.

Advantage 1

.....

Advantage 2

.....

Advantage 3

..... [3]

(b) Give **two** disadvantages to the family of having these computers connected in a network.

Disadvantage 1

.....

Disadvantage 2

..... [2]

11 Describe how ICT could be used to help find a job.

.....

.....

.....

.....

.....

..... [3]

