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

**2357/01**

Paper 1 (Foundation Tier)

Candidates answer on the question paper.  
**OCR supplied materials:**  
None  
**Other materials required:**  
None

**Monday 10 January 2011  
Afternoon**

**Duration: 1 hour**



Candidate forename		Candidate surname	
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Centre number						Candidate number				
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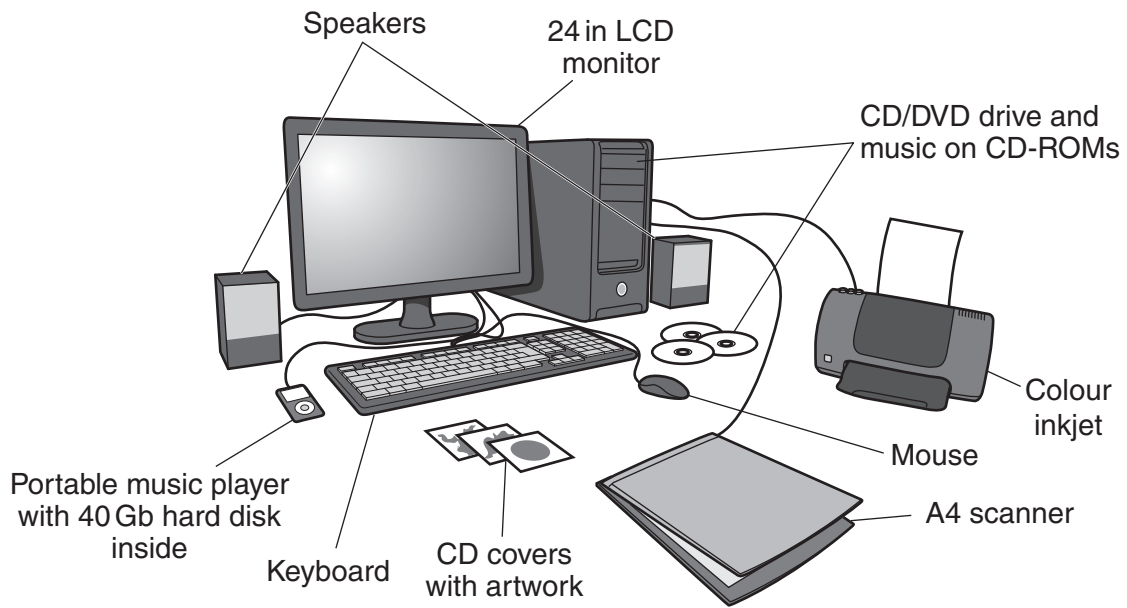
**INSTRUCTIONS TO CANDIDATES**

- Write your name, centre number and candidate number in the boxes above. Please write clearly and in capital letters.
- Use black ink. Pencil may be used for graphs and diagrams only.
- Read each question carefully. Make sure you know what you have to do before starting your answer.
- Write your answer to each question in the space provided. Additional paper may be used if necessary but you must clearly show your candidate number, centre number and question number(s).
- Answer **all** the questions.
- Do **not** write in the bar codes.

**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**.
- No marks will be awarded for using brand names of software packages or hardware.
- This document consists of **12** pages. Any blank pages are indicated.

1 Sue uses this computer system to copy music files to her portable music player.



(a) Tick **one** box in each row to show whether the item is used for storage, input, or output.

Item	Storage (✓)	Input (✓)	Output (✓)
24 in LCD monitor			
40 Gb hard disk			
CD-ROM			
Keyboard			
Mouse			

[5]

(b) Sue uses the portable music player while away from her computer. Identify **one** other output device she will need to listen to her music from her music player.

..... [1]

(c) Sue copies her music CDs and gives them to her friends. Why is it wrong for her to do this?

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

(d) Sue copies the CD artwork onto her computer system.

Identify the device in her computer system that she would use to do this.

..... [1]

(e) Sue tries to print the CD artwork but no printouts come out of the printer.  
Give **three** possible reasons why Sue failed to get a printout from her printer.

Reason 1 .....

.....

Reason 2 .....

.....

Reason 3 .....

..... [3]

2 Draw a line from each of the tasks to the most suitable software used to carry out the task:

Task	Software
Creating 3D drawings of a new kitchen	Email client
Creating a booklet	Web browser
Editing an image	Graphics package
Looking at information on the internet	Computer Aided Design (CAD)
Sending electronic messages over the internet	Desktop publishing (DTP)

[5]

- 3 The spreadsheet below is used by a bookshop to create an invoice. The totals in column D are calculated using formulas.

	A	B	C	D
1	Title	Cost of one book	Quantity purchased	Total Cost
2	ICT Revision	£9.75	25	£243.75
3	Biology Topics	£11.25	20	£225.00
4	History Topics	£10.98	32	£351.36
5	Art Projects	£9.95	34	£338.30
6				
7			<b>Total</b>	<b>£1,158.41</b>
8				
9				
10				
11	Tax Rate on books	0.00%	Tax	£0.00
12				
13				
14			Discount	£57.92
15				
16			<b>Order Total</b>	<b>£1,100.49</b>
17				
18			Delivery	£50.00
19	Tax Rate on services	15.00%	Tax	£7.50
20				
21				
22			<b>Invoice Total</b>	<b>£1,157.99</b>
23				

- (a) Which row contains only labels?

..... [1]

- (b) Identify **one** row that contains labels, values **and** formulas.

..... [1]

- (c) Give the cell reference of **one** cell that is formatted as currency and give **one** reason for it being formatted in this way.

**Cell** .....

**Reason**.....

..... [2]

- (d) The Tax Rate on services has been increased to 17.5%.

- (i) Give the cell reference of the cell that must be changed.

..... [1]

- (ii) Give the cell reference of the **two** cells that will automatically change as a result.

**Cell** .....

**Cell**..... [2]

- (e) The company gives a 5% discount for orders over £1000 using this formula in D14:

**=IF(D7>1000, D7\*0.05,0)**

The discount is to be changed. Customers will now get **4%** discount for orders over **£1200**.

Write down the new formula that is needed in cell D14.

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

- 4 Tick **one** box in each row to show whether the feature applies to email or fax.

<b>Feature</b>	<b>Email</b> (✓)	<b>Fax</b> (✓)
It can be used to send the same document to many people at the same time		
It can be used to send video files as attachments		
It immediately creates a hard copy printout of the sender's document for the recipient		

[3]

5 Files can be moved from one computer to another by copying them onto a portable storage medium.

(a) Identify **two** suitable portable storage media that could be used.

1.....

2..... [2]

(b) Describe **one** other way of moving the files from one computer to another.

.....

.....

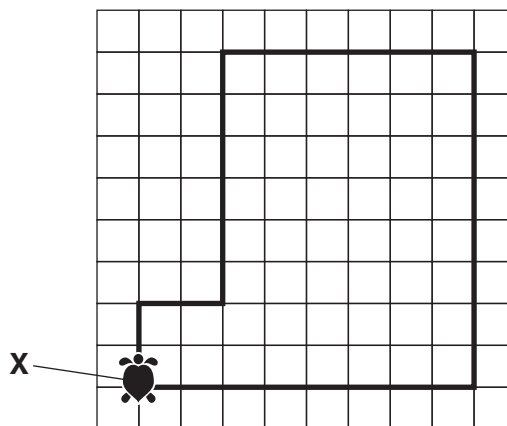
.....

..... [2]

6 The table below shows instructions used to move a turtle on a grid.

<i><b>INSTRUCTION</b></i>	<i><b>SHORT INSTRUCTION</b></i>	<i><b>MEANING</b></i>
REPEAT $n$ [ ]	REPEAT $n$ [ ]	Repeat the instructions in square brackets $n$ times
FORWARD $n$	FD $n$	Move $n$ units forwards
BACKWARD $n$	BK $n$	Move $n$ units backwards
LEFT $n$	LT $n$	Turn left $n$ degrees
RIGHT $n$	RT $n$	Turn right $n$ degrees

Using the instructions given in the table, write down the instructions that would be needed to make the turtle start at **X** and move around this shape and end up back as it started.





7 Identify **two** methods that might be used to input data to set a burglar alarm system and give **one** benefit of each method.

**Method 1** .....

.....

**Benefit** .....

.....

**Method 2** .....

.....

**Benefit** .....

..... [4]

8 A home computer network is connected to the internet. Explain how private information on this home computer network can be protected from viewing by unauthorised persons.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... [6]





- (b) (i) Give **two** advantages of using a computer system to collect the weather data from the sensors rather than collecting it manually.

**Advantage 1** .....

.....

**Advantage 2** .....

..... [2]

- (ii) Give **two** disadvantages of using a computer system to collect the data about the weather from the sensors rather than collecting it manually.

**Disadvantage 1** .....

.....

**Disadvantage 2** .....

..... [2]

11  
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