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Centre number						Candidate number				
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**OXFORD CAMBRIDGE AND RSA EXAMINATIONS
GENERAL CERTIFICATE OF SECONDARY EDUCATION**

2357/01

**INFORMATION AND COMMUNICATION
TECHNOLOGY**

Paper 1 (Foundation Tier)

MONDAY 10 JANUARY 2011: Afternoon

DURATION: 1 hour

SUITABLE FOR VISUALLY IMPAIRED CANDIDATES

Candidates answer on the question paper.

OCR SUPPLIED MATERIALS:

Diagram Booklet (inserted)

OTHER MATERIALS REQUIRED:

None

READ INSTRUCTIONS OVERLEAF

INSTRUCTIONS TO CANDIDATES

- **Write your name, centre number and candidate number in the boxes on the first page. 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.**

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.**

1 Sue uses the computer system shown in Figure 1 in the separate diagram booklet 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. [5 marks]

ITEM	STORAGE (✓)	INPUT (✓)	OUTPUT (✓)
24 in LCD monitor			
40 Gb hard disk			
CD-ROM			
Keyboard			
Mouse			

**(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 mark]**

**(c) Sue copies her music CDs and gives them to her friends.
Why is it wrong for her to do this? [2 marks]**

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

Identify the device shown in the picture of her computer system in Figure 1 that she would use to do this. [1 mark]

- (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. [3 marks]**

Reason 1 _____

Reason 2 _____

Reason 3 _____

- 2 Draw a line from each of the tasks in the left-hand column below to the most suitable software to carry out the task in the right-hand column below. [5 marks]

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)

3 The spreadsheet in Figure 2 in the separate diagram booklet is used by a bookshop to create an invoice. The totals in column D are calculated using formulas.

(a) Which row contains only labels? [1 mark]

(b) Identify ONE row that contains labels, values AND formulas. [1 mark]

(c) Give the cell reference of ONE cell that is formatted as currency and give ONE reason for it being formatted in this way. [2 marks]

CELL _____

REASON _____

(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 mark]

(ii) Give the cell reference of the TWO cells that will automatically change as a result. [2 marks]

CELL _____

CELL _____

(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 marks]

4 Tick ONE box in each row to show whether the feature applies to email or fax. [3 marks]

FEATURE	EMAIL (✓)	FAX (✓)
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		

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. [2 marks]

1 _____

2 _____

(b) Describe ONE other way of moving the files from one computer to another. [2 marks]

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

Instruction	Short Instruction	Meaning
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 the shape shown in Figure 3 in the diagram booklet 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. [4 marks]

METHOD 1 _____

BENEFIT _____

METHOD 2 _____

BENEFIT _____

TURN OVER FOR NEXT QUESTION

- (b) (i) Give TWO advantages of using a computer system to collect the weather data from the sensors rather than collecting it manually. [2 marks]**

ADVANTAGE 1 _____

ADVANTAGE 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. [2 marks]**

DISADVANTAGE 1 _____

DISADVANTAGE 2 _____

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