

**OXFORD CAMBRIDGE AND RSA EXAMINATIONS**  
**General Certificate of Secondary Education**

**INFORMATION AND COMMUNICATION TECHNOLOGY**



**2357/01**

**PAPER 1 (FOUNDATION TIER)**

Wednesday

**11 JANUARY 2006**

Afternoon

1 hour

Candidates answer on the question paper.  
 No additional materials are required.

Candidate Name

Centre Number

|  |  |  |  |  |
|--|--|--|--|--|
|  |  |  |  |  |
|--|--|--|--|--|

Candidate Number

|  |  |  |  |
|--|--|--|--|
|  |  |  |  |
|--|--|--|--|

**TIME** 1 hour

**INSTRUCTIONS TO CANDIDATES**

- Write your name, Centre number and Candidate number in the boxes above.
- Answer **all** the questions.
- Write your answers, in blue or black ink, in the spaces on the question paper.
- Do not write in the bar code. Do not write in the grey area between the pages.
- **DO NOT WRITE IN THE AREA OUTSIDE THE BOX BORDERING EACH PAGE. ANY WRITING IN THIS AREA WILL NOT BE MARKED.**

**INFORMATION FOR CANDIDATES**

The number of marks 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**.

| <b>FOR EXAMINER'S USE</b> |           |      |
|---------------------------|-----------|------|
| Question no.              | Max. Mark | Mark |
| 1                         | 3         |      |
| 2                         | 1         |      |
| 3                         | 2         |      |
| 4                         | 7         |      |
| 5                         | 3         |      |
| 6                         | 2         |      |
| 7                         | 7         |      |
| 8                         | 2         |      |
| 9                         | 3         |      |
| 10                        | 4         |      |
| 11                        | 5         |      |
| 12                        | 2         |      |
| 13                        | 5         |      |
| 14                        | 8         |      |
| 15                        | 6         |      |
| <b>TOTAL</b>              | <b>60</b> |      |

**This question paper consists of 12 printed pages.**

Answer all questions.

1 Here are some output devices that can be connected to computers.



Speakers



Plotter

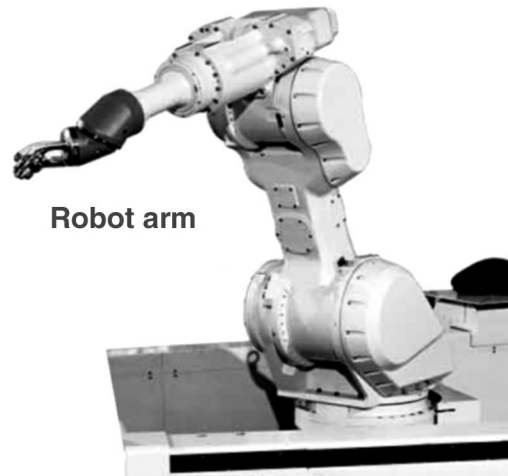


Laser Printer



Buzzer

Monitor



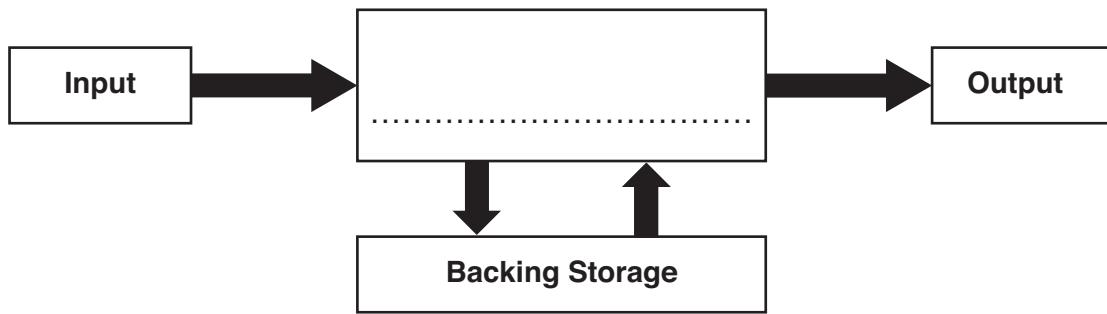
Robot arm

In the table, write the name of the device that would be used for each of the tasks.

| Task                  | Device |
|-----------------------|--------|
| Playing music         |        |
| Painting a car        |        |
| High quality printing |        |

3

2 Complete this diagram of a typical computer system.



[1]

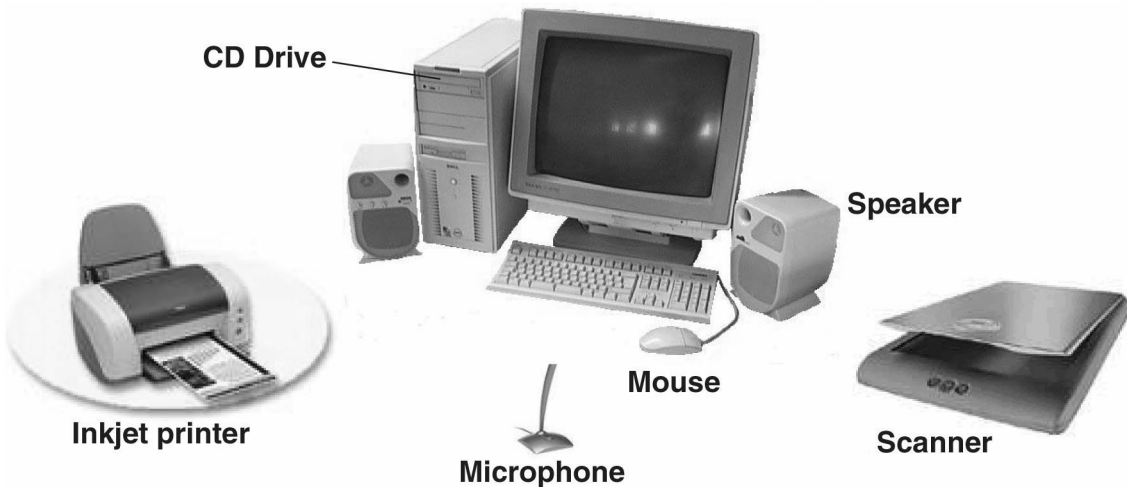
3 Tick **two** input devices that can be used to move a pointer on a screen.

| Device                 | tick (✓) |
|------------------------|----------|
| Joystick               |          |
| Magnetic stripe reader |          |
| Scanner                |          |
| Temperature sensor     |          |
| Tracker ball           |          |

[2]

[Turn over

- 4 Casper has been on a school geography trip.  
He uses this computer system to make a presentation about the trip.



- (a) Casper needs to collect sounds for the presentation.

Identify **one** input device in the system that he would use.

.....[1]

- (b) Casper took some photographs on the trip and had them printed.

Identify **one** input device in the system that he would use to add these photographs to his presentation.

.....[1]

- (c) Casper wants to use a photograph from a library book in his presentation.

Give **one** reason why he should **not** do this.

.....[1]

(d) Casper has to do some homework about the trip.

Tick **one** box in each row to show the most suitable software package to use for each homework task.

| Homework Task                         | Database<br>(✓) | Graphics package<br>(✓) | Word Processor<br>(✓) |
|---------------------------------------|-----------------|-------------------------|-----------------------|
| Storing details of the places visited |                 |                         |                       |
| Typing a report about the trip        |                 |                         |                       |
| Editing the pictures of the trip      |                 |                         |                       |

[3]

(e) Casper saves his work in a file on his hard disk. When he wants to use it again, he cannot open the file.

Give **one** possible reason for this problem.

.....[1]

5 Using computers for long periods of time can cause health problems.

Tick **one** box in each row to show the best way to reduce each of these health risks.

| Possible health risk             | The health risk can be reduced by: |  |                                  |
|----------------------------------|------------------------------------|--|----------------------------------|
|                                  | using a wrist rest<br>(✓)          | using a high resolution monitor<br>(✓) | using an adjustable chair<br>(✓) |
| Eye strain                       |                                    |  |                                  |
| Neck and back problems           |                                    |  |                                  |
| Repetitive Strain Injuries (RSI) |                                    |  |                                  |

[3]

6 Identify **two** safety rules that pupils should obey when using a school computer room.

1 .....

2 .....[2]


7 This is a draft version of an advertising leaflet from an estate agent.

for sale

old country residence

£925 000


Apply to:  
Daniel D. Lyonne  
Sales Manager  
DDL Estate Agents  
Oxford  
tel: 01993 4567



This is the final version.

**For Sale**

**Old Country Residence**



£925 000

Apply to: Daniel D. Lyonne  
Sales Manager  
DDL Estate Agents  
Oxford  
Tel: 01993 4567

A →

B →

(a) All the text has been centred on the page.

Give **three** other ways in which the title at **A** has been altered.

Way 1 .....

Way 2 .....

Way 3 .....[3]

(b) A graphics package was used to alter the picture for use in the finished leaflet.

Give **two** ways in which the picture was altered.

Way 1 .....

Way 2 .....[2]

(c) The estate agent wants to use the details at **B** again in a new leaflet.

Describe a quick way to put them into the new leaflet.

.....

.....

.....[2]

8 Give **two** ways you could use a computer to find information about Scotland.

Way 1 .....

.....

Way 2 .....

.....[2]

9 Give **three** ways that the use of chat rooms on the Internet can bring problems to the user.

Way 1 .....

.....

Way 2 .....

.....

Way 3 .....

.....[3]

10 (a) Barbara's computer has been infected by a virus.

What is a computer virus?

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

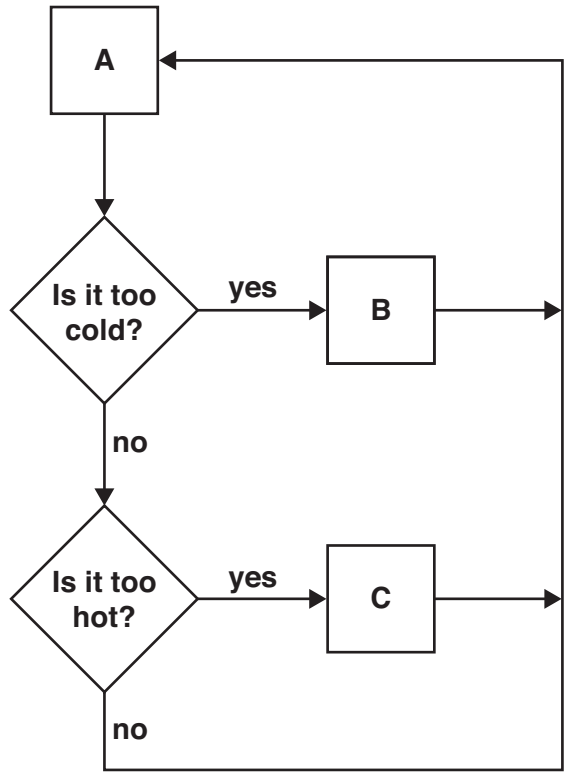
(b) Barbara has some important files on her computer.

Describe what she should do to avoid losing her work.

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



11 A central heating system is controlled by a microprocessor. This diagram shows part of the program sequence used to control the temperature.



(a) Use the letters, **A**, **B** and **C** to complete the table below.

| Event                     | This happens at (A, B or C) |
|---------------------------|-----------------------------|
| Read the room temperature |                             |
| Switch off the heating    |                             |
| Switch on the heating     |                             |

[3]

(b) Give **two** advantages of using a microprocessor to control the heating system in a home.

Advantage 1 .....

.....

Advantage 2 .....

.....[2]

12 Identify **two** features that could be part of a CD-ROM about weather systems that could not be included in a book.

Feature 1 .....

Feature 2 .....[2]

13 Michelle uses her home computer for financial planning.

(a) Give **two** reasons why she would use a spreadsheet for this task.

Reason 1 .....

.....

Reason 2 .....

.....[2]

(b) When she enters new data into her spreadsheet it has to be verified.

State **one** way that the data could be verified.

.....

.....[1]

(c) Give **two** ways the data in her spreadsheet could be presented in a word-processed report.

Way 1 .....

.....

Way 2 .....

.....[2]

14 A small shop uses ICT.

(a) Explain how ICT can be used for buying and paying for goods in the shop.

.....[4]

(b) Explain how ICT could be used by the shopkeeper to keep track of his stock.

.....[4]

**PLEASE TURN OVER FOR THE LAST QUESTION**

**[Turn over**

15 A car park has a barrier at the entrance. To raise the barrier to gain entry to the car park, a car driver enters a code which is checked by a computer system.

(a) (i) Give **two** suitable methods of inputting the code at the barrier to gain entry to the car park.

Method 1 .....

Method 2 .....[2]

(ii) Give **one** advantage of this method of inputting the code.

.....[1]

(b) The car park has limited spaces.

Describe how a computer system could be used to count the number of available spaces in the car park.

.....

.....

.....

.....

.....

.....

.....[3]