



# ÉCOLE GLOBALE

## INTERNATIONAL GIRLS' SCHOOL

### Dehradun

## HOLIDAY HOMEWORK - CLASS IX A (ICT)

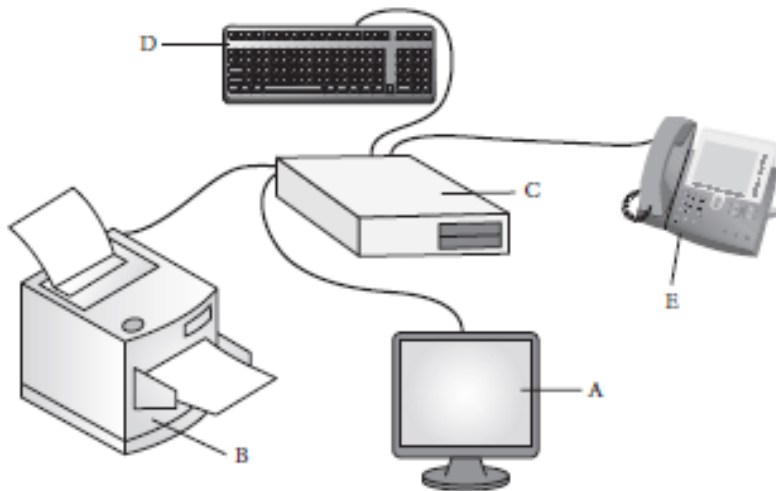
### Types and components of computer systems

- 1 Indicate whether each of the following devices is an input or output device.  
  
mouse      monitor      plotter      speaker      keyboard      scanner
  
- 2 ROM and RAM are two different types of memory found in computers.
  - I What do the letters ROM stand for?
  - II What do the letters RAM stand for?
  - III What is the main difference between RAM and ROM?
  - iv Which of the following statements best describes RAM; which best describes ROM?
    - 1 This stores a copy of your work when the computer is switched off.
    - 2 This stores application programs and data while the computer is running.
    - 3 This stores programs that must be available as soon as the computer is switched on.
  
- 3 Giving suitable examples, explain the difference between hardware and software.
  
- 4 Define software and name three different types of software, explaining the purpose of each.
  
- 5 Draw a diagram to represent the main components of a computer system.
  
- 6 What is an operating system (OS)? List four functions of an OS.
  
- 7 Describe the features of:
  - I a graphical user interface
  - II a command-line interface.

- 8 Computers have become more user friendly with the development of graphical user interfaces. Give four features of a graphical user interface. Give two possible future developments of user interfaces.
- 9 Indicate which of the following statements are TRUE or FALSE:
- i ROM stands for Read Only Memory.
  - ii Data can be saved in ROM.
  - iii The main memory of a computer can store software and data.
  - iv Data that changes is normally held in ROM.
  - v Data on magnetic tape has to be read serially.

## Input and output devices

- 1 The diagram shows a microcomputer system. Name the components and classify each as input, output, storage, communications or processor.



- 2 Name the data input type and the associated reader to input the following characters and patterns into a computer.

0 8 3 7 5 9 1 9 3 8



Centre			Group		Student		
0	1	4	1	4	0	3	1
<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>
<u>2</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>2</u>
<u>3</u>	<u>3</u>	<u>3</u>	<u>3</u>	<u>3</u>			
<u>4</u>	<u>4</u>	<u>4</u>	<u>4</u>	<u>4</u>			
<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>			

- 3 Indicate whether each of the following devices is an input or output device:  
 mouse    monitor    plotter    speaker    keyboard    scanner
- 4 I Give an example of the use of each of the following: bar code reader, magnetic ink character reader (MICR) and optical mark reader (OMR).  
 II Give two different ways in which words can be input to a computer, without using a keyboard.
- 5 Name three pointing devices and the type of computer system on which each is most often used.
- 6 Describe the input devices used at an ATM machine.
- 7 Name three different types of sensors used to input data in a control application.
- 8 Define each of the following terms and explain where they are used:  
 I MICR  
 II OCR  
 III OMR.

# Storage devices and media

- 1 Define the term 'backing storage' and explain why computers need backing storage.
- 2
  - I Name two backing storage device types that a computer uses.
  - II Which type of disk allows the fastest access to data?
- 3 Hard disks are one type of backing storage.
  - I Name two other different types of magnetic backing storage.
  - II Name two types of optical storage.
- 4
  - I Name three different portable storage media.
  - II For each medium, name a different device in which each can be used.
- 5
  - I Which type of storage device is used by a large organisation with large volumes of data where speed of access is important?
  - II Describe two applications where it would be used.
  - III What kind of data access is used?
- 6 Describe the advantages and disadvantages of the different forms of optical storage media.
- 7
  - I What is meant by the term 'backup'?
  - II Why is it needed?
- 8 What are the differences, in speed and permanency, between main memory and backing storage?
- 9
  - I Name five different types of magnetic storage.
  - II Arrange your list of storage media in order of increasing capacity.
  - III Give an application where each type of magnetic storage would be used.