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Jump Start

Tick the correct option if the devices are input or output.

Scanner	Monitor	Mouse	Printer
Input ✓ Output	Input Output ✓	Input ✓ Output	Input Output ✓

Keyboard	Headphones	Microphone	Speakers
Input ✓ Output	Input Output ✓	Input ✓ Output	Input Output ✓

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ASSESSMENT TIME

Section-I
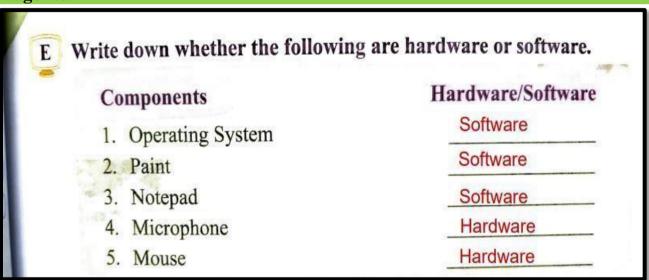
A Fill in the blanks.

Conceptual Understanding

1. All the physical parts of a computer that you can see, touch and feel are called hardware.

2. The scanner converts printed data or images from paper to digital data format.

3. A pen drive is mostly used to transfer data from one computer to another.

4. Microsoft Windows is an operating system.

B Write (T) for true or (F) for false statements.

1. A computer uses an output device to show the result. **T**
2. A webcam is an input device. **T**
3. A hard disk stores data permanently. **T**
4. Application software are used to control the functionality of a computer. **F**

C Multiple Choice Questions

1. Which of the following is not an input device?

   (a) CPU ✓   (b) Mouse ○

   (c) Scanner ○   (d) Keyboard ○

2. Which of the following controls the overall activities of a computer?

   (a) Notepad ○   (b) Operating System ✓

   (c) Paint ○   (d) MS Word ○

3. Which of the following is an operating system?

   (a) Notepad ○   (b) Tux Paint ○

   (c) Windows ✓   (d) Paint ○

4. The game you play on a computer is an example of _____

   (a) Hardware ○   (b) Software ✓

   (c) Input device ○ (d) Operating System ○

D. Answer the following.

1. What is the use of a processing device?

Ans. A device that is used to process the input data and produce the result is called the Processing device. **Eg:** CPU
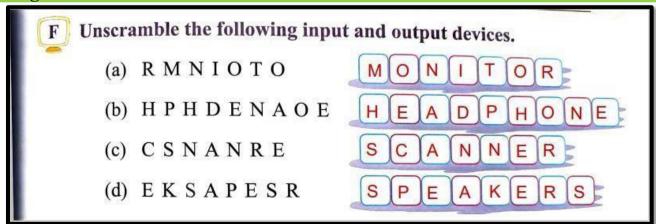
2. What is a software?

Ans. Software is a set of instructions that tells the computer what to do. It is also called a computer program.

3. What is an application software? Mention any two examples.

Ans. Application software is a set of one or more programs used to accomplish a specific task. For example:- MS Paint, Tux Paint.

4. What is a system software? Mention any two examples.

Ans. System software controls the overall functioning of computer. For example:- Microsoft window, Apple Mac OS

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E Write down whether the following are hardware or software.

Components	Hardware/Software
1. Operating System	Software
2. Paint	Software
3. Notepad	Software
4. Microphone	Hardware
5. Mouse	Hardware

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F Unscramble the following input and output devices.

(a) R M N I O T O — M O N I T O R

(b) H P H D E N A O E — H E A D P H O N E

(c) C S N A N R E — S C A N N E R

(d) E K S A P E S R — S P E A K E R S

Section II

Application Based Questions

1. Sai is writing an essay using the word processor on a computer in the school. She wants to take the essay home to work on it. But the computer does not have a CD/DVD drive. Suggest to her the device that she can use for this purpose.

Ans. **Pen drive**

2. Write the name of the input or output device that you will use in the situations given below.

Ans. (a) To record a song in your own voice   **Microphone**

    (b) To type a letter   **Keyboard**

    (c) To select a file on the screen   **Mouse**

    (d) To get a hard copy of your typed letter   **Printer**

    (e) To play music at a birthday party   **Speakers**

CBE Based Questions

1. Which of the following are types of Software?

  (a) System   (b) Application   **(c) Both (a) and (b)**   (d) None

2. Which of the following is not an Operating System?

  (a) Windows   (b) Linux   (c) iOS   **(d) MS Word**

3. Which of the following is Application Software?

  (a) Tux Paint   (b) WordPad   (c) Paint   **(d) All of the above**

4. Which of the following is a set of Instructions?

  (a) Program   (b) Software   **(c) Both (a) and (b)**   (d) None

5. A hard disk is the secondary storage device of a computer. (True or False)   **True**

6. A CD is fixed in the CPU. (True or False)   **False**

7. A DVD is used to store videos and movies. (True or False)   **True**
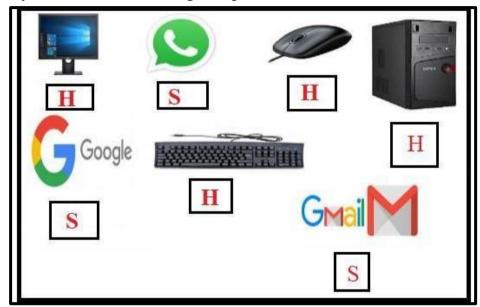
8. A pen drive is connected to the computer through a USB port.
(True or False)   **True**

9. The output that is printed on a paper is called a **hard** copy.

10. Headphones usually have an attached **Microphone**.

11. **Storage Devices** are used to store data on the computer.

12. A **CD**/**DVD** is a circular-shaped storage device.

13. Identify and Mark the below given pictures as Hardware (H) and Software (S).

14. Identify and circle the storage devices.

15. Write the full forms for the following.
   A] CPU:- Central Processing Unit
   B] CD:- Compact Disk
   C] DVD:- Digital Versatile Disk
   D] OS:- Operating System
   E] ALU:- Arithmetic Logic Unit

16. Classify the following into system software and application software.
   [Mac OS,Scratch Jr., Linux, Tux Paint, MS Paint, Microsoft Windows, iOS, Android, Word]
   Ans:

System Software	Application Software
Mac OS	Scratch Jr.
Linux	Tux Paint
Microsoft Windows	Word
iOS	Tux Paint
Android	MS Paint

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Jump Start

Given below is a list of application and system software. Put them in the correct bucket.

Windows, MS- Word, Linux, Android, Unix, Paint, Tux Paint, ScratchJR

System Software

Microsoft Windows

Android

Linux

Unix

Application Software

MS Word

Paint

Tux Paint

ScratchJR

ASSESSMENT TIME

Section-I

A Fill in the blanks.

Conceptual Understanding

1. The _Operating System_ is the most important software that runs on a computer.

2. The _Windows_ operating system provides a Graphical User Interface.

3. The _Desktop_ is the main screen of the Windows operating system.

4. _Taskbar_ is the long horizontal bar present at the bottom of the Windows desktop.

B Multiple choice questions.

1. Windows is the product of _____.

   (a) Infosys   ⃝   (b) Intel   ⃝

   (c) Microsoft   ✓   (d) CPU   ⃝

2. GUI stands for _____.

   (a) Graphic Unique Interface   ⃝

   (b) Graphical Universal Interface   ⃝

   (c) Graphical User Interface   ✓

   (d) Graphic Used ID   ⃝

3. Which of the following holds the clock and other options on the desktop?

    (a) Icon   ◯   (b) Taskbar   ✔

    (c) Wallpaper   ◯   (d) Screen-saver   ◯

4. Which of the following is used to see the programs or files in a computer?

    (a) Personalize   ◯   (b) Desktop   ◯

    (c) Wallpaper   ◯   (d) Start menu   ✔

C   **Write (T) for true or (F) for false statements.**

1. An operating system is a system software.   **T**

2. An operating system loads first, when a computer starts.   **T**

3. The desktop is the main screen of the computer.   **T**

4. Linux is an application program.   **F**

5. An icon represents a file, folder or program.   **T**

D.   Answer the following.

1.   What is an operating system?

Ans. An operating system is a software loaded into the computer which controls and manages all the operations of the computer.

2. **Differentiate between Command-Line Interface and Graphical User Interface.**

Ans.

Command line Interface	Graphical User Interface
(i)The CUI allows the user to interact with the computer system by typing commands using the keyboard.	(i) GUI provides a graphical interface using, icons, menus and images.
(ii) Eg: DOS (Disk Operating System) and UNIX.	(ii) Eg: Microsoft Windows, Linux, Mac OS.

3. **What are Icons?**

Ans. Icons are the small pictures that represent as application, a file or a folder on the desktop. For example : This PC, Recycle Bin and Network etc.

4. **List any two activities that you can do using the start menu.**

Ans. **(a)** View a list of all programs installed on a computer.
(b) Open the 'File Explorer' to navigate files and folders.

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Section II

Application Based Questions

1. Samayra wants to see all the open applications. Suggest her which option to use to view the opened application.

Ans. She can use **Task View Button** to shows/view all open applications.

2. Shavy wants to write all the installed applications on her computer. But she is unable to see all the installed applications on the computer. Help her in completing her task.

Ans. She can **Click on Start button** to view all the programs installed on the computer.

Lab Time

1. **Perform the tasks given below.**
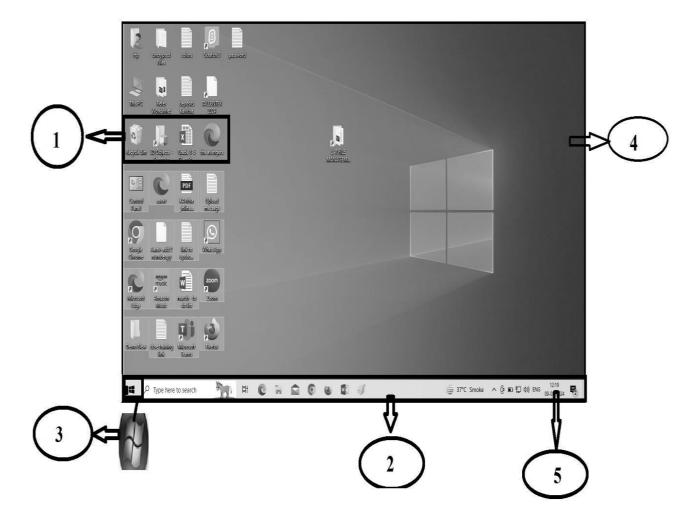
Note down the answers in your notebook.

Task 1: Observe the taskbar of your desktop. Note the name of opened programs if any.

Task 2: Click on the Start button on the taskbar.

Task 3: Open any two applications.

Task 4: Observe the taskbar again. Note the name of opened programs.

Task 5: Click the Task View icon and check if all open windows are visible on the desktop.

To be done in the computer lab practically.

CBE Based Questions

1. Which of the following is not an Operating System?

   (a) Ubuntu   (b) Linux   (c) **Microsoft**   (d) Windows

2. Which of the following is an example of a CLI operating system?

   (a) DOS   (b) Unix   (c) Windows   **(d) Both (a) and (b)**

3. Which of the following are versions of Windows?

   (a) Windows 7   (b) Windows 11   (c) Windows 10   **(d) All of the above**

4. Which of the following are common icons on the Desktop?

   (a) Network   (b) Recycle Bin   (c) This PC   **(d) All of the above**

5. A computer cannot perform any task without an Operating System. (True or False)
   True

6. The CLI-based operating systems are easier to use when compared to GUIs

   (True or False)   **False**

7. A taskbar is a long horizontal bar seen at the bottom of the Windows desktop.

   (True or False)   **True**

8. The Network icon checks if you are connected to a network. (True or False)   **True**

9. **Operating System** controls and manages all operations of the Computer.

10. The OS allows to interact with the computer by providing a **Graphical Platform**.

11. A Command-Line User Interface (CLI) is a **text-based** interface.

12. The **Start** button is used to display the Start menu.

13. **Label the circles given below with numbers 1, 2, 3, 4 and 5 by carefully matching definition for the marked parts of Windows Desktop.**

    1   - Small pictures that represent an application, a file or a folder.(**Icons**)

    2   -   The long horizontal bar seen at the bottom of the Windows desktop.(**Taskbar**)

3   **-**   This button is used to display the start menu. (**Start Button**)

4   **-**   Digital image or photo used as background on the screen of the computer. (**Desktop Background / Wallpaper**)

5   **-**   Shows the current time and date.(**clock**)

AIL: Practical

1. Introducing the students to **Command Line Interface (CLI)**
   - **Steps to invoke a CLI:**
   i.   Windows key + R to start a cmd prompt
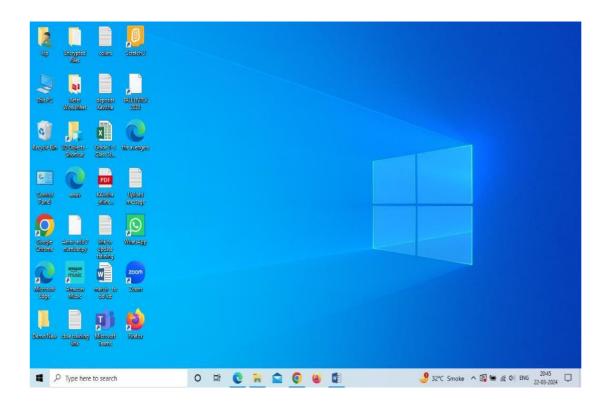
   ii.   Type 'cmd' in the screen shown below

   iii.   Press OK to see the Command Line Window as shown below

2. Introducing students to Graphical User Interface (GUI)- **Window 10**

   i. Introduction to **Boot Screen** of windows.

ii. Introduction to the **Desktop Screen**.

iii. Introduction to the components of windows
- Desktop
- Notification Area
- Icons
- Taskbar
- Start Button

iv. Identifying the common icons on the Desktop screen like
- Recycle Bin
- Network
- This PC

v. Identifying the components of a Taskbar:
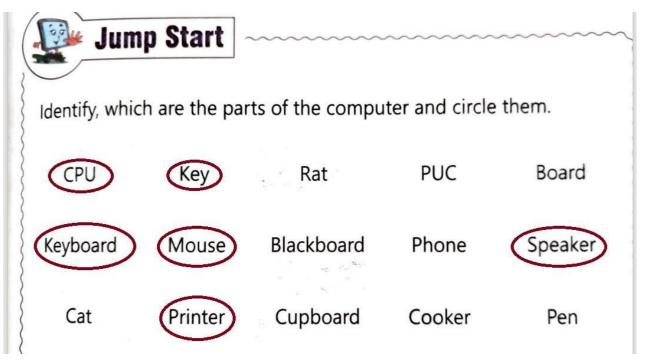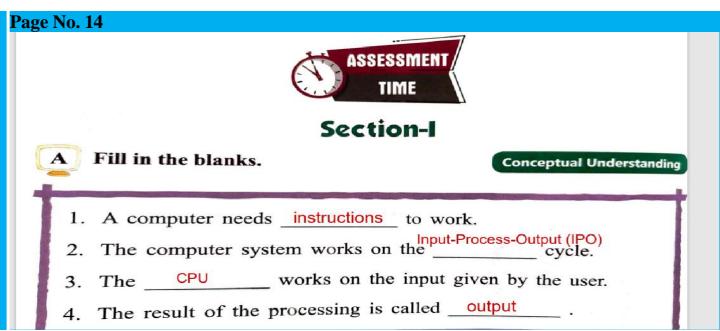i.   Start Button
ii.   Task view
iii. Program tab
iv.   clock

Page No. 7

Jump Start

Identify, which are the parts of the computer and circle them.

CPU   Key   Rat   PUC   Board

Keyboard   Mouse   Blackboard Phone   Speaker

Cat   Printer   Cupboard   Cooker   Pen

Page No. 14

ASSESSMENT TIME

Section-I

A Fill in the blanks.   Conceptual Understanding

1. A computer needs __instructions__ to work.
2. The computer system works on the __Input-Process-Output (IPO)__ cycle.
3. The __CPU__ works on the input given by the user.
4. The result of the processing is called __output__ .

B **Multiple Choice Questions.**

1. What is the use of a smartwatch?

   (a) It is used to browse the internet

   (b) It is used to make and receive calls

   (c) It is used to listen music

   (d) All of these ✓

2. The result of the processing is called the _____.

   (a) CPU

   (b) Input

   (c) Output ✓

   (d) Process

3. _____ are small computers that you can carry with you to other places easily.

   (a) Laptop

   (b) Desktop

   (c) Tablet

   (d) Both a & c ✓

4. A _____ is a computer device that can be held in your hands.

   (a) CPU

   (b) Desktop

   (c) Tablet ✓

   (d) Laptop

C **Write (T) for true or (F) for false statements.**

1. Smartwatch can also be used to browse the internet. ___T___

2. Computers cannot work for many hours. ___F___

3. A computer can store a large amount of data. ___T___

4. A computer never makes mistakes. ___T___

5. The result of a processing is called output. ___T___

D. Answer the following questions:

1. Name any two input devices.

Ans. Keyboard, Mouse, Scanner are the various input devices.

2. Name any three types of computers.

Ans. Desktop Computer, Laptop Computer, Tablet, Smartphone, Smartwatch are the three types of computers.

3. What is the full form of IPO?

Ans. IPO-Input-Process-Output is the full form of IPO.

4. Write any two advantages of computers.

Ans.
    a. **High Speed**: A computer is a very fast machine.

    b. **Multitasking**: A computer can do many tasks at the same time.

Section-II

Application Based Questions [Experimental Learning]

1. Mansi is going on a trip with her family. She wants to keep in touch with her friends and teachers. Which device she should carry to keep in touch with her friends and do study online?

Ans. She has to take her laptop and smartphone with her to keep in touch with her friends and teacher and to study online.

2. Write the Input, Process, and Output cycle for any real-life application used in the everyday task at home.

Ans. **Input –** Dialing the number.

. **Process-** Connecting the number.

Output – Talking to your friend.

Project Work [Creativity]

Create a chart on the "Various Types of Computers" using pictures. And paste it on the wall of your classroom.

To be done once informed in the class by the teacher.
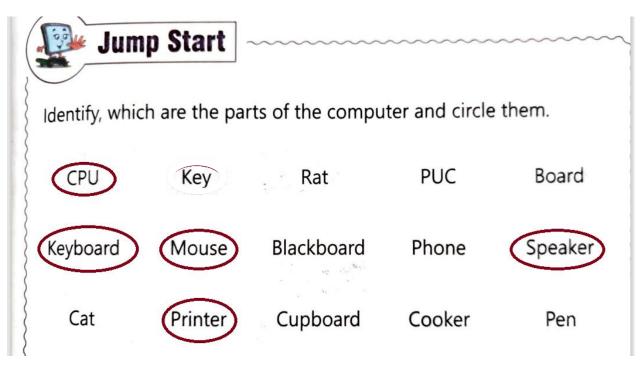
1. Which of the following are the advantages of computers?
    (a) Versatile   (b) Multitasking   (c) High Speed   **(d) All of the above**

2. Which of the following is not an input device?
    (a) Scanner   (b) Printer   (c) Monitor   **(d) Both (b) and (c)**

3. Which of the following is required by a computer to perform a task?
    (a) Output   (b) Input   (c) None   **(d) Both (a) and (b)**

4. Desktop computers are designed to carry anywhere. (True or False) **False**

5. You can work with a Laptop without electricity. (True or False) **True**

6. A Tablet is bigger than a Laptop in size. (True or False) **False**

7. The result of the processing is called the Output. (True or False) **True**

8. A computer is made up of many different **parts**.

9. A computer accepts data, **processes** it and then gives the result.

10. Input can be given with the help of **input devices**.

11. The **CPU** works on the input given by the user.

12. Data and instructions given to the computer are called **Input.**

13. IPO cycle is also known as IPO+S. The S stands for **storage** as a computer also stores the output for future use in its storage device(hard disk).

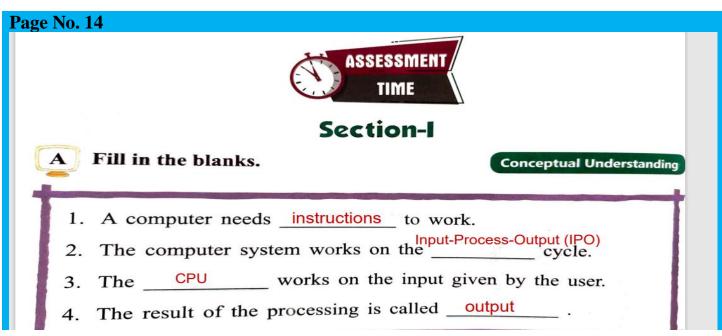14. **Computer** wastes are harmful to the environment.

Page No. 7

Jump Start

Identify, which are the parts of the computer and circle them.

(CPU)	(Key)	Rat	PUC	Board
(Keyboard)	(Mouse)	Blackboard	Phone	(Speaker)
Cat	(Printer)	Cupboard	Cooker	Pen

Page No. 14

ASSESSMENT TIME

Section-I

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