Sample Question Paper - 2
Class- IX Session- 2021-22
TERM 2
Subject- Computer Science

Time Allowed: 2 hour   **Maximum Marks: 25**

General Instructions :

1. *The Question Paper contains three sections A, B and C. Each section is compulsory.*

2. *Section A has 4 questions of short answer type. Each question is of 2 marks. Internal choice is provided in 1 question.*

3. *Section B has 3 questions of Long Answer Type-I (LA-I). Each question is of 3 marks. Internal choice is provided in 1 question.*

4. *Section C has 2 questions of Long Answer Type-II (LA-II). Each question is of 4 marks.*

Section – A   **[8 marks]**

This section has 4 questions of short answer type. Each question is of 2 marks. Internal choice is provided in 1 question.

1. Write any two limitations of primary memory.

2. What is system software?

OR

Microphone is an output device. State Yes or No.

3. What is monitor?

4. What is the function of preview/play button in custom animation ? Explain briefly.

Section – B   **[9 marks]**

This section has 3 questions of Long Answer Type-I (LA-I). Each question is of 3 marks. Internal choice is provided in 1 question.

5. Discuss the types of operating system based on user interaction.

6. What do you mean by hard disk?

7. What is a real-time system?

OR

Define the following

(i) Hardware

(ii) Software

This section has 2 questions of Long Answer Type-II (LA-II). Each question is of 4 marks. Question-8 is of case-based type.

8. Read the case study given below and attempt any 4 sub-questions (out of 5). Each sub-question carries 1 mark.

WORKING OF COMPUTER (I-P-O CYCLE)

A computer system consists of hardware, the physical unit (parts) of the computer that are capable of computing and manipulating information and software that carries out predefined tasks to complete a given job. The computer performs operations like addition, subtraction, multiplication and division only when the user instructs it to do so. The user issues instructions and the CPU acts in accordance with the instructions. The sets of instructions, which control the sequence of operations, are known as programs, and collectively programs are called software.

(i) What does I-P-O stand for?

(ii) A set of instructions or programs is called a ....

(iii) The .... issues instructions and the CPU acts in accordance with the instructions.

(iv) Which part of CPU performs calculations like addition, subtraction, multiplication and division?

(v) What does CPU stand for?

9. Write the steps to present animation.

❑❑❑

Solution

Section – A

1. **(i)** Limited storage capacity.

    (ii) Volatile in nature i.e. data is stored temporarily.

2. The set of instructions, which co-ordinates the operations of the hardware, is called a system software.

<div align="center">OR</div>

No, because we speak in it which is equivalent for giving a command to the computer. Therefore, It is an input device.

3. Monitor is an output device which is used to display information, programs and applications in a computer. Like televisions, monitors come in different sizes.

    Some types of monitors are:

    (i) Cathode Ray Tube (CRT)

    (ii) Liquid Crystal Display (LCD)

    (iii) Light Emitted Diode (LED).

4. The play button shows the sample of slide on a custom animation when it is clicked. The preview button shows the effect when a custom animation effect is assigned.

<div align="right">[2 marks for proper answer]</div>

Section – B

5. On the basis of user interaction, operating systems are divided into two types:

    (i) **CUI:** It stands for Command User Interface. They are operating systems which work on instructions given by user in the form of commands.

      For example: DOS, Unix, Novell.

    (ii) **GUI:** It stands for Graphical User Interface. They are the operating systems which have graphics so that users can interact more easily and interestingly.

      For example: Windows, Macintosh, Android.

Commonly Made Error
- Student get confused and write the desktop, Multiprocessing operating system.

Answering Tip
- Read the question carefully that they asked the type of operating system based on user interaction and answer accordingly.

6. Hard disk, also known as fixed disk, is an example of external storage devices. It is not a single flexible disk, but a stack of metal disks sealed in a box. The hard disk and hard disk drive exist together as a unit and are permanent part of the computer where most of our files are saved. The storage of hard disk is up to 2-4 TB. They are very reliable as compared to floppies, they are revertible and we can access any information in fraction of seconds.

7. A real time process is a process that must respond to the events within a certain time period. A real time operating system is an operating system that can run real time processes successfully. A real-time operating system (RTOS) is an operating system (OS) intended to serve real-time application requests. It has an advanced algorithm for scheduling.

(3 marks for correct code)

OR

For moving a range to desired location, do the following:

(i) Select the range of cells that you want to move to other location.

(ii) Then, mover the mouse pointer at the boundary of the selected cell range. Mouse pointer will of the selected cell range. Mouse pointer will convert to + shape.

(iii) Click there and move the range to the desired target location.

(3 marks for correct answer)

Section – C
[8 marks]

8. (i) Input-Process-Output.

(ii) Software.

(iii) User.

(iv) ALU.

(v) Central Processing Unit.

9. (i) Select slide show > Animation schemes to display the side design pane with animation schemes displayed in the pane.

(ii) Choose the effect from under the heading recently used on animation, subtle moderate or exciting.

(iii) To preview the animation, click auto preview pane.

(iv) Click apply to all slides, for apply the animation to all slides

❑❑❑