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SARDAR PATEL UNIVERSITY

B.Sc. (Semi- 3)

US03EELE01: Fundamentals of Computer Hardware

Date: 06-01-2021

Time: 10.00 am – 12.00 pm

Marks: 70

Q-1 Select the correct option from the following questions. (10)

- 1) Execution of the instruction takes place in _____.
(A) Arithmetic Logic Unit (B) Input Unit
(C) Control Unit (D) Storage Unit
- 2) Popular type of Handheld computer is _____.
(A) Desktop (B) PDA
(C) Notebook (D) Smart Phone
- 3) Computer coded language is converted to human acceptable form by _____.
(A) Storage Unit (B) Control Unit
(C) Input Unit (D) Output Unit
- 4) CD drive reads data by focusing _____ on the disk surface.
(A) Light (B) Flash
(C) Laser (D) Head
- 5) The process of mapping a magnetic disk surface is called _____.
(A) Accessing (B) Charging
(C) Writing (D) Formatting
- 6) _____ is an example of magnetic storage device.
(A) Flash Memory (B) Hard disk
(C) CD-ROM (D) DVD-ROM
- 7) Pen is sometimes called _____.
(A) Stylus (B) Style
(C) Styling (D) Stole
- 8) _____ is not a modifier key.
(A) shift (B) Ctrl
(C) Backspace (D) ALT
- 9) Laser Printers are _____ printers.
(A) Matrix (B) Plotter
(C) Impact (D) Non-impact
- 10) Back of the CRT monitor's screen is coated with _____.
(A) Electrons (B) Elements
(C) Phosphors (D) Neons

Q-2 Fill in the blanks/True-False. (08)

- 1) Human Language is converted into Computer Language by _____.
- 2) Diskettes spin at about _____ RPM.
- 3) _____ mouse uses a reflected light to measure its movement.
- 4) Colored ink-jet printers are also known as _____.

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[P.T.O.]

- 5) The computer which supports needs of thousands of users is Mainframe. (True/False)
- 6) A magnetic disks track are divided into small parts called clusters. (True/False)
- 7) Bar Code Reader is a special type of scanner. (True/False)
- 8) Size of Monitor is measured vertically. (True/False)

Q-3 Short Answer Questions. (Attempt any 10 out of 12)

(20)

- 1) What is a Super Computer?
- 2) Write a note on Handheld Computers.
- 3) What is a Cache Memory?
- 4) Write any two differences between Magnetic Tape and Magnetic disk.
- 5) List different types of registers used in computer.
- 6) Explain Smart Cards.
- 7) Explain Touch Screen in brief.
- 8) Write a note on Digital Bar Code Reader.
- 9) What is an Image Scanner?
- 10) Explain Dot Pitch.
- 11) Define Plotters and its uses.
- 12) Describe Thermal wax printers in short.

Q-4 Long Answer Questions. (Attempt any 4 out of 8)

(32)

- 1) Define and Differentiate ROM, RAM, PROM and EPROM.
- 2) Draw the block diagram showing basic organization of computer systems & Explain function of each block.
- 3) Write a detailed note on Magnetic Tape.
- 4) List different Optical Storage Devices and explain in detail any one.
- 5) Explain characteristics and working of Keyboard.
- 6) Write a note on Mouse.
- 7) Explain different types of printers in detail.
- 8) Explain CRT Monitors in detail.

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