

475

Register No.:

April 2024

*Time – Three hours*  
(Maximum Marks: 100)

- [N.B. 1. Answer all questions under Part-A. Each question carries 3 marks.  
2. Answer all the questions either (A) or (B) in Part-B. Each question carries 14 marks.]

PART – A

1. Differentiate between software and firmware.
2. List the features of PCI bus.
3. What are the types of printers?
4. What is HDMI? Give its significance.
5. Define POST.
6. Write the steps to avoid ESD.
7. Differentiate between half duplex and full duplex data flow.
8. Define router in networks.
9. Differentiate connection oriented and connectionless services.
10. Compare 802.4 and 802.5 protocols.

[Turn over.....

PART – B

11. (a) (i) Define cache memory. Explain the characteristics of cache in improving the performance of the processor.(7)  
(ii) Write short notes on features of DDR-memory.(7)

(Or)

- (b) (i) Write short notes on secondary storage devices.(7)  
(ii) Explain HDD partition and formatting. (7)

12. (a) Explain any two types of keyboards based on their working principle.

(Or)

- (b) (i) Explain the working principle of TFT display devices.(7)  
(ii) Write short notes on ATX power supply.(7)

13. (a) (i) Explain the BIOS setup for configuring a system.(7)  
(ii) Explain the role of diagnostic software.(7)

(Or)

- (b) Explain the steps in installation of OS and troubleshooting of a laptop.

14. (a) Explain different types of networks in computer communication.

(Or)

- (b) Explain OSI model architecture. Also discuss the function of each layer.

15. (a) Explain network layer protocols and their functions.

(Or)

- (b) Explain application layer protocols and their functions.

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