

**2213**

October 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. Define firmware.
2. Define direct RDRAM.
3. List the different types of mouse.
4. List the features of dot matrix printer.
5. Define firewall.
6. Draw the block diagram of laptop motherboard.
7. What is half duplex and full duplex?
8. List the advantages of ring topology.
9. Give the format for UDP header.
10. Define supernetting.

[Turn over.....]

PART - B

11. (a) Explain about PCMCIA.  
(Or)  
(b) (i) Explain the working principle of DVD reader/writer.(7)  
(ii) Write notes on solid state memory devices.(7)
12. (a) Explain the working of mechanical and membrane keyboard with diagram.  
(Or)  
(b) Explain the working of SMPS with diagram.
13. (a) Explain about the tests performed by POST.  
(Or)  
(b) Write down the steps involved in OS installation.
14. (a) Explain client server and peer to peer networks with neat diagram.  
(Or)  
(b) Explain about the data flow in OSI model.
15. (a) Explain about IGMP and ARP.  
(Or)  
(b) Compare 802.X protocols.
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