

August 2022

Post Graduate Diploma in Computer Application (PGDCA) Examination

II Semester

2-10P : COMPUTER NETWORKING

Time 3 Hours]

[Max. Marks 100

**Note :** Attempt any two parts from each question. All questions carry equal marks.

1. (a) Explain with examples different types of Communication Methods used in Networking.  
(b) Explain features, functions of 7 layers of TCP / IP Model.  
(c) Explain different types of Ethernet Cables and components used in Networking (for both bounded and unbounded medium) with their advantages and disadvantages.
2. Explain difference between (with advantages and disadvantages) and diagrams : [(a) and (b) parts]  
(a) LAN, MAN and WAN  
(b) Types of Network Topologies  
(c) Write short note on the following :  
(i) Types of Tokens  
(ii) ARC.Net  
(iii) FDDI.
3. (a) Explain with diagram difference between Datagram and Virtual Circuit. Describe Switching Process.  
(b) Explain different formats of IP Addressing and Subnetting with examples.  
(c) Explain different types of Routing Algorithms used in Networking.
4. (a) Explain similarities and differences between Data Link Layer and Transport Layer.  
(b) Explain different types of Error Correction and Detection Codes.  
(c) Explain different types of Character Oriented and Bit Oriented Protocols with their applications.
5. Write notes on different types of protocol suites with examples :  
(a) TCP / IP Protocol Suites (Internet Switching and Transfer).  
(b) IPX / SPX Protocol Suites and Apple Talk.  
(c) UDP (Routing and Telnet).

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