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**BT - 5 / D-19**  
**COMPUTER NETWORKS**  
**Paper-CSE-303 N**

Time allowed : 3 hours]

[Maximum marks : 75

Note:- Attempt any five questions selecting at least one question from each unit.

**Unit-I**

1. (a) Explain the advantages of having layered architecture of computer networks. What are interfaces and services here? 9
- (b) Describe the terms attenuation, distortion, noise and bandwidth. 6
2. (a) What are different network topologies? 5
- (b) Explain the terms ATM and ISDN. 10

**Unit-II**

3. (a) Describe the terms reservation, polling and multiple access. 6
- (b) Describe frame format of IEEE 802.3 and explain various fields. 9
4. (a) What are the differences between pure and slotted aloha? 6
- (b) What do you mean by sliding protocol? Explain its working in detail. 9

35114

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(2)

**Unit-III**

5. (a) What is a subnet? How to identify its address? Will this address be same as the network address? Discuss your answer with clear example. 10
- (b) Explain with the help of an example Dijkstra's algorithm as applied to computing shortest path in a network. 5
6. (a) What is ARP? Why is an ARP query sent within a broadcast frame? Why is an ARP response sent within a frame with a specific destination MAC address? 10
- (b) Discuss any two different unicast and multicast routing protocols. 5

**Unit-IV**

7. (a) Discuss TCP congestion control algorithm along with a suitable figure. 8
- (b) What is cryptography? Explain security protocols used in internet. 7
8. (a) Describe the IPv6 header and explain salient features of this protocol. 8
- (b) What do you mean by quality of service? What does it signify? Discuss some QoS parameters. 7

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