

Computer Communication &
Telecom Network Q.P. Code : 588502

(3 Hours)

[Total Marks : 80

- N.B. :** (1) Question No.1 is compulsory.
(2) Solve **any Three** out of remaining questions.
(3) Assume suitable **data** wherever **required**.
(4) **Answers** to the questions should be **grouped** and **written** together.

1. (a) Draw sublayer of data link layer. Explain the role of each layer. 5
(b) Differentiate the host to host delivery provided by data link layer and network layer. 5
(c) What is socket address? Explain with example. Comment on socket programming. 5
(d) Compare between circuit switching and packet switching. 5
2. (a) List the role of application layer and explain one application layer protocol. 10
(b) Classify unicast routing protocol. Explain exterior routing protocol in brief. 10
3. (a) Compare between Ethernet LAN and IEEE 802.11 WLAN. 5
(b) What is DSL and HFC? Describe in brief. 5
(c) What is peer to peer communication? Describe decentralized peer to peer sharing. 10
4. (a) What are the performance parameters of network? Explain in brief. 5
(b) Classify multiple access techniques. Explain CSMA/CA technique with backoff algorithm. 5
(c) Describe in details the physical transmission media for computer communication networks 10
5. (a) What are the demerits of Distance Vector algorithm? How it is overcome? 10
(b) What is tunneling? Explain Automatic Tunneling and configuration tunneling in detail. 10
6. Write short notes on (**any Two**) : 20
 - (a) Networking Devices
 - (b) ATM
 - (c) Congestion Control
 - (c) IPv6