



Q.P. Code : 588501

(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) List and describe in brief network connection topologies. 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. 5
 (d) Compare between circuit switching and packet switching. 5
 2. (a) Explain DNS protocol with query resolution. 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 are DSL and HFC? Describe in brief. 5
 (c) What is peer-to-peer communication? Describe decentralized peer-to-peer sharing. 10
 4. (a) Draw a neat diagram of TCP Header. 5
 (b) Explain CSMA/CD technique with exponential back-off algorithm. 5
 (c) Describe in details the physical transmission media for computer communication networks. 10
 5. (a) Compare between Distance Vector algorithm and Link state routing algorithm. 10
 (b) Draw a neat diagram of IPv4 Header. Explain each field. 10
 6. Write short notes on (**any Two**) : 20
 - (a) Networking Devices
 - (b) ATM
 - (c) IPv6