

- N.B.:** (1) Question No. 1 is compulsory.
(2) Attempt any Three questions out of remaining questions.

1. Answer any four 20
- (a) Discuss and compare various types of Networks.
 - (b) Explain PSTN.
 - (c) Compare Circuit switched and Packet switched networks.
 - (d) Differentiate between TCP and UDP.
 - (e) Explain Framing in Data link layer.
2. (a) Describe about the different Guided Transmission Medias. 10
(b) What are three main function of Network layer? What is Routing. Explain Distance vector Routing. 10
3. (a) Explain the Connection Establishment and Termination in TCP with neat diagram. 10
(b) Explain the functions of data link layer 10
4. (a) Explain TCP Sliding Window protocol with neat diagram in detail. 10
(b) Explain HDLC protocol with suitable diagram. 10
5. (a) Explain the following with example :- 10
(i) Repeaters (ii) Switches (iii) Hubs (iv) Routers (v) Bridges
(b) What are the elements of Transport Layer 10
6. Write short notes on (Any Four) 20
- (i) GSM operation subsystem
 - (ii) Networking using Windows and LINUX operating system
 - (iii) Internet Control Protocol
 - (iv) Mobile Telephone System
 - (v) BGP.
