

06/06/18

QP Code : 30096

(3 Hours)

[Total Marks : 100

- N.B. :** (1) Question no.1 is compulsory
 (2) Attempt any **four** questions out of remaining six questions
 (3) Illustrate answers with sketches wherever required

1. Answer the following questions (any four):

- (a) Compare between connection oriented and connectionless.
 (b) What do you mean by bit stuffing and destuffing.
 (c) IP is the best effort delivery service justify
 (d) What is the use of subnet mask in IP addressing.

2. (a) What is IP addressing? State different classes of IP addressing with Netid and hostid. 10

(b) Explain each field in the TCP header format. 10

3. (a) Compare between HDLC and PPP and Explain different modes of HDLC. 10

(b) Compare between OSI model and TCP/IP protocol suit. 10

4. (a) What is exterior routing protocol? Explain in brief. 10

(b) Explain need of fragmentation and related field in IPV4 datagram. 10

5. (a) Explain how sliding window protocol is used for error control. 10

(b) Explain in brief IEEE 802.3 standard in detail. 10

6. (a) Define ALOHA? What are its types? Compare between the ALOHA types. 10

(b) What is congestion? Explain any one technique for congestion control. 10

7. (a) Write a short note on (any two): 20

- (i) DHCP
 (ii) Transmission media
 (iii) The M/G/I mode
 (iv) Networking Topologies

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