

B.E. Sixth Semester (Information Technology) (CGS)
10743 : Computer Networks : 6 IT 04

P. Pages : 2

Time : Three Hours



AU - 2771

Max. Marks : 80

- Notes :
1. Due credit will be given to neatness and adequate Dimensions.
 2. Assume suitable data wherever necessary.
 3. Illustrate your answer necessary with the help of neat sketches.
 4. Use of pen Blue/Black ink/refill only for writing book.

1. a) What are the goals of Computer Networks? Explain the classification of interconnected processor by scale. 7

b) Explain different Guided transmission media. 6

OR

2. a) Draw and explain OSI Reference Model. 7

b) What are the various design issues for the layers that occur in computer network? 6

3. a) What are the various data link layer issue? What are the relation between packets and frames? 7

b) Explain the simplex stop-and-wait protocol. 7

OR

4. a) A bit stream 10011101 is transmitted, assume generated polynomial is X^3+1 . Show actual bit string transmitted. Suppose the third bit from the left is altered during transmission show that error is detected at the receiverend. 7

b) Explain example of data link layer protocol
1) HDLC 2) PPP 7

5. a) Explain algorithm for collision detection in Ethernet. Also differentiate persistent and non-persistent CSMA. 7

b) Explain Manchester and differential Manchester encoding with example? 6

OR

6. a) Explain architecture of Bluetooth. 7

b) Explain wavelength division multiple access protocol? 6

7. a) Explain design issues of Network layer. 7

b) Explain shortest path routing. 6

OR

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|----|----|---|---|
| 8. | a) | Explain flooding as Routing Algorithm. | 7 |
| | b) | Define congestion control. Describe the factors responsible for congestion. | 6 |
| 9. | a) | Explain the socket programming. | 7 |
| | b) | Explain in brief flow control and Buffering. | 6 |

OR

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|-----|----|--|---|
| 10. | a) | Explain TCP header in brief. | 7 |
| | b) | What is TCP congestion control? Explain in brief. | 6 |
| 11. | a) | Explain in brief architecture and services of E-mail. | 7 |
| | b) | Explain HTTP Request and HTTP Response message in brief. | 7 |

OR

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|-----|----|---|---|
| 12. | a) | What is the multicast Backbone? Explain in brief. | 7 |
| | b) | Explain in brief video on demand system. | 7 |

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