

M.C.A: First Year / P.G.D.C.S. Second Semester (CGS)
15513 : Data Communications : 2 MCA 4 / 2 CS 4

P. Pages : 2

Time : Three Hours



AW - 3606

Max. Marks : 80

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- Notes : 1. Assume suitable data wherever necessary.
2. Illustrate your answer necessary with the help of neat sketches wherever necessary.

1. a) Explain the telephone communication network with the help of suitable diagram. 7
b) What is voice - mail? State its advantages over traditional telephone system. 6

OR

2. a) Explain the store – and – forward switching mechanism. 7
b) Describe the cellular technology. State its features. 6
3. a) Describe the working of optic Fibre Cable. 7
b) What are the attributes of terminals and workstations? Explain. 6

OR

4. a) What is FEP? Describe its Functions. 7
b) Explain various types of network architectures. 6
5. a) What are short haul modems? Explain. 7
b) Describe the RS232 cable connector used for communication. 6

OR

6. a) What is a modem? Describe various modem standards. 7
b) What is pulse code modulation? Explain. 6
7. a) What is polling? Explain the various types of polling. 8
b) What are network errors? Explain the causes of network errors. 6

OR

8. a) What is ARQ? Explain the types of ARQ. 8
b) What is medium access control? State the importance of MAC in network communication. 6
9. a) Explain the protocol TCP/IP alongwith its frame structure. 7

b) Describe the working of Routing Information protocol. 6

OR

10. a) What is the need of a network standard? Describe the process for making network standard. 7

b) Define Routing. Explain the static and dynamic routing. 6

11. a) Explain the topology used for Ethernet standard of LAN. 8

b) List and describe the factors needed to be considered while selecting LAN. 6

OR

12. a) What is a LAN? Distinguish between Dedicated and Peer-to-Peer LAN. 8

b) Describe : 6

i) Arc Net

ii) AppleTalk
