

AQ – 2628

Second Semester MCA Examination

DATA COMMUNICATION

Paper – 2 MCA 4

P. Pages : 2

Time : Three Hours]

[Max. Marks : 80

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

1. (a) What is TASI ? Explain. 7
(b) Describe the Interactive Voice Response System. 7

OR

2. (a) Explain Data Communication concept. State its uses. 7
(b) Explain the cellular Technology. State its features. 7
3. (a) What is Line adaptor ? Explain its working. 7
(b) Explain the different application of FDM (Frequency Division Multiplexing). 7

OR

4. (a) What is Multipoint Networks ? Explain. 7
(b) Explain :—
(i) Bandwidth (ii) Modem. 7
5. (a) What is Pulse Code Modulation ? Explain. 7
(b) Explain various standards used in connector cables for communication circuits. 6

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OR

6. (a) What is Pulse Amplitude Modulation ? Explain. 7
(b) What is modem ? Explain different types of modem. 6

7. (a) Explain OSI model. 7
(b) What is forward error correction ? Explain. 6

OR

8. (a) Explain the asynchronous file transfer in detail. 7
(b) Explain transmission efficiency. 6

9. (a) Explain IPV₄ and IPV₆ with features. 7
(b) Explain static and Dynamic routing. 6

OR

10. (a) Explain how TCP is different from UDP. 7
(b) Explain IPX and SPX protocol. 6

11. (a) What is LAN ? Distinguish between Dedicated Server LAN and peer – to – peer LAN. 7
(b) Explain ArcNet Vs Ethernet. 6

OR

12. (a) Explain the working of CSMA/CD protocol. 7
(b) Explain the concept of Token Ring topology in detail. 6

