

M.C.M. Part—I Semester—I Examination
BUSINESS DATA COMMUNICATION
Paper—1 MCM 4

Time : Three Hours]

[Maximum 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.

1. (a) Explain the concept and uses of Data Communication. 8
(b) What do you mean by information superhighway ? Give its component and explain in brief. 8

OR

2. (a) What is meant by switching ? Discuss the switching method in detail. 8
(b) What do you mean by groupware ? Explain. 8
3. (a) Explain in detail special purpose communication devices. 8
(b) What are different types of modem ? Explain. 8

OR

4. (a) Discuss in detail analog transmission of digital data. 8
(b) Describe client server architecture with its advantages and disadvantages. 8
5. (a) Explain seven layer of OSI model in detail. 10
(b) What is network routing ? Explain centralized routing in detail. 6

OR

6. (a) Explain Asynchronous transmission in detail. 8
(b) What are various techniques of error prevention in computer network ? 8
7. (a) What are network operating system ? Explain NOS server. 8
(b) Explain different LAN component in brief. 8

OR

8. (a) How can you improve LAN performance ? Explain. 8
(b) Discuss in detail Token Ring. 8
9. (a) Define MAN. How can performance of MAN be improved ? 8
(b) Explain following terms :
(i) Improve device performance.
(ii) Improve circuit capacity. 8

OR

10. (a) What is dedicated circuit network ? Explain with diagram. 8
(b) Explain following terms :
(i) Plain old telephone services (POTS).
(ii) Integrated Services Digital Network (ISDN). 8

