H Roll No. ....

TBC–402

B. C. A. (FOURTH SEMESTER)
MID SEMESTER EXAMINATION, 2021
DATA COMMUNICATION AND COMPUTER NETWORKS

Time : 1½ Hours

Maximum Marks : 50

Note : (i) Answer all the questions by choosing any *one* of the sub-questions.

(ii) Each question carries 10 marks.

1. (a) Define LAN. And discuss the different topologies to design LAN with suitable example and neat and clean diagram.

10 Marks (CO1)

OR

(b) Explain Digital to Analog conversion techniques with example.

10 Marks (CO2)

P.T.O.

2. (a) Discuss the data communication components and characteristics with proper example.   10 Marks (CO1)

OR

(b) Explain the various guided transmission media.   10 Marks (CO2)

3. (a) Explain different modes of communication with diagram.   10 Marks (CO1)

OR

(b) Write a detailed note on various electronics and communication standardization organization.   10 Marks (CO1)

4. (a) Discuss the PCM technique with neat and clean diagram.   10 Marks (CO2)

OR

(b) Define computer network. Explain different advantages and application of computer networks.   10 Marks (CO1)

5. (a) Why do we need encoding ? Draw the Signal using Manchester and differential Manchester encoding scheme for 10110110.   10 Marks (CO2)

OR

(b) Explain different categories/types of networks ?   10 Marks (CO1)