

H Roll No.

TBC-301

B. C. A. (THIRD SEMESTER)

MID SEMESTER EXAMINATION, 2022

**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) Explain the different topologies of network with suitable example and neat and clean diagram. (CO1)

OR

- (b) Explain Digital to Analog conversion techniques with example. (CO2)

2. (a) Discuss the data communication components with a neat and clean diagram and proper example. (CO1)

P. T. O.

(2)

OR

(b) Explain the various transmission media with their features. (CO2)

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

OR

(b) Discuss the various switching techniques with proper diagrams. (CO2)

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

OR

(b) Define computer network. Explain different advantages and applications of computer networks. (CO1)

5. (a) Why do we need encoding ? Draw the Signals using Manchester and differential Manchester for the string 10110110. Give proper example. (CO1)

OR

(b) Explain different categories of networks. (CO1)

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