(C02)

with their features...

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## B. C. A. (THIRD SEMESTER)

### **MID SEMESTER EXAMINATION, 2022**

### DATA COMMUNICATION AND COMPUTER NETWORKS

Time: 11/2 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 strength and the

- (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)

#### OR

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

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

#### B. C. A. (THIEROSEMESTER)

- (b) Discuss the various switching techniques with proper diagrams. (CO2)
- (a) Discuss the PCM technique with a neat and clean diagram. (CO2)

#### OR marrixally

- Define computer network. Explain different advantages and applications of computer networks.
- 5. (a) Why do we need encoding? Draw the Signals using Manchester and differential Manchester for the string 10110110. Give proper example. (CO1)

#### Digital OR Analog somersion

(b) Explain different categories of networks.

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