

III Semester B.C.A. 4 Degree Examination, March - 2022  
DATA COMMUNICATION & COMPUTER NETWORKS  
(Repeater)

Time : 3 Hours

Maximum Marks : 80

Instructions to Candidates :

- 1) ALL Sections are Compulsory.
- 2) Draw neat diagram wherever necessary.

SECTION - A

Answer the following questions.

(10×2=20)

- I. a) What is Computer Network ? Mention its any 2 services.
- b) What is Bus Topology ?
- c) Define Analog Repeater.
- d) What is digital transmission ?
- e) What is FDM & WDM ?
- f) Define space Division switch.
- g) Mention any 2 services of peer to peer model.
- h) Mention 2 types of frames in HDLC.
- i) Define CSMA.
- j) What is Polling ?

SECTION - B

Answer any FOUR of the following .

(4×5=20)

2. Discuss Telephone Network & Circuit Switching.
3. Explain two ways of Characterization or Communication Channel.
4. Discuss Cyclic Redundancy check.
5. Discuss the frame format of PPP.
6. Define Aloha and explain Slotted Aloha.

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SECTION - C

Answer any FOUR of the following.

(4×10=40)

7. Differentiate and Discuss OSI & TCP/IP Reference Model.
8. Explain 5 Line Coding Method with neat diagram.
9. Write a note on
  - a) Polynomial code.
  - b) Internet checksum.
10. Discuss Go-back-N ARQ and selective Repeat ARQ.
11. Define Channelization Explain 3-types of Channelization.