



41324/C240

Reg. No.

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III Semester B.C.A.4 Degree Examination, March/April - 2021
DATA COMMUNICATION AND COMPUTER NETWORKS
(Regular/Repeaters)

Time : 3 Hours

Maximum Marks : 80

Instructions to Candidates:

- 1) All sections are compulsory.
- 2) Draw neat diagrams wherever necessary.

SECTION - A

Answer **ALL** the questions.

(10×2=20)

1.
 - a) Mention any two communication services.
 - b) What are the functions of Data link layer?
 - c) Define shannon channel capacity..
 - d) Define the terms bit rate and bandwidth.
 - e) What is a switch?
 - f) What are polynomial codes?
 - g) Define pipelining
 - h) List any two differences between connection oriented and connectionless services.
 - i) What do you mean by the term multiple access communication? Give example.
 - j) What are CSMA protocols?

SECTION-B

Answer any **FOUR** of the following.

(4×5=20)

2. Discuss circuit switching and telephone networks.
3. What is a modem? Briefly explain digital modulation.
4. Explain Optical fibre transmission medium with a neat diagram.
5. Explain the PPP frame format.
6. Write a note on LAN structure.

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SECTION - C

Answer any **FOUR** of the following.

(4×10=40)

7. Explain the TCP/IP reference model.
 8. Describe any five line coding methods.
 9. What is Multiplexing? Explain frequency division multiplexing
 10. Write short notes on:
 - a) Go-back-N protocol
 - b) Timing recovery in synchronous service.
 11. Explain ALOHA protocol for a multiaccess channels.
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