



44674/C5010

Reg. No.

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III Semester B.C.A. 5 Degree Examination, March - 2022

DATA COMMUNICATION [SEC]

(Regular)

Time : 2 Hours

Maximum Marks : 40

Instructions to Candidates :

- 1) *All sections are Compulsory.*
- 2) *Draw neat diagram wherever necessary.*

SECTION - A

Answer any **FIVE** of the following.

(5×2=10)

1. a) Mention the applications of computer Networks.
b) Differentiate between guided and unguided transmission media.
c) Define the term protocol.
d) List the functions of data link layer.
e) What are CSMA protocols.
f) What are Multi access protocols ?
g) Mention any two topologies used in LANs.

SECTION - B

Answer any **FIVE** of the following.

(5×4=20)

2. Describe the optical fibre transmission medium with a neat diagram.
3. Write a short note on WAN.
4. Explain the CRC (Cyclic Redundancy Check)method for error detection.
5. Briefly explain the data link layer design issues.
6. What is non-persistent CSMA protocol ?
7. What is channel allocation problem ? Give examples.
8. Define switching . Briefly explain message switching.

[P.T.O.]



(2)

44674/C5010

SECTION - C

Answer any **ONE** of the following.

(1×10=10)

9. Explain in detail TCP/IP reference model.
 10. Discuss the selective Repeat Protocol. Mention its advantages compared to Go- Back - N protocol.
 11. Describe the slotted ALOHA protocol for a shared channel.
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