



44674/C5010

Reg. No.

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III Semester BCA 5 Degree Examination, March/April - 2023

DATA COMMUNICATION**(Repeater)****Paper : Theory Pattern****Time : 1½ Hours****Max. Marks : 40****Instructions to Candidates:**

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

SECTION - A**Answer any FIVE of the following:****(5×2=10)**

1.
 - a) What is a computer network?
 - b) What is message switching?
 - c) Define topology in computer networks.
 - d) What is multiplexing?
 - e) Define Framing.
 - f) What is channelization?
 - g) Define MAC.

SECTION-B**Answer any FIVE questions of the following****(5×4=20)**

2. Write a short note on LAN network.
3. Explain the star topology with a neat diagram.
4. Briefly explain the TCP/IP reference model.
5. Explain Twisted pair transmission medium with a neat diagram.
6. Write the steps in CRC error detection technique.
7. With a neat diagram explain the stop and wait ARQ protocol.
8. Explain any two types of CSMA protocols.

P.T.O.



SECTION - C

Answer any ONE of the following

(1×10=10)

9. With a neat diagram explain the OSI reference model.
 10. Define ALOHA write a short note on pure ALOHA for a shared channel supported with a neat diagram.
 11. Explain the following sliding window protocols
 - a) Go-Back -N
 - b) Selective Repeat
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