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II Semester M.C.A. Degree Examination, December - 2023

COMPUTER SCIENCE

Computer Networks

(CBCS Y2K20 Scheme Non-NEP)

Paper :2MCA3

Time : 3 Hours

Maximum Marks : 70

*Instructions to Candidates:*

Answer any Five questions from Section - A

Answer any Four questions from Section -B



## SECTION-A

Answer any Five questions. Each question carries 6 marks.

(5×6=30)

1. Define the term Data Communication. What are its characteristics? Explain its components.
2. Write a note on transmission impairment.
3. Differentiate between error detection and error correction with suitable example.
4. Compare and contrast Go-Back-N-ARQ and Stop-and- Wait ARQ.
5. Define ALOHA. Differentiate between Pure Aloha and Slotted Aloha.
6. What is IPv4? Discuss about classful addressing and classless addressing.
7. Explain about TCP congestion control.
8. Explain WWW in detail.

## SECTION-B

Answer any Four questions . Each question carries 10 marks.

(4×10=40)

- 9 a) Explain the layers of TCP/IP protocol suite in detail. (6)
- b) Discuss the different types of computer networks. (4)

[P.T.O.]



- 10 a) What is Point-to-Point Protocol? Explain. (6)
  - b) Write a note on Polling and token passing. (4)
  - 11. Define Channelization. Explain different channelization protocols. (10)
  - 12. a) Write a note on ICMP. (5)
  - b) What is three-way handshaking in TCP. (5)
  - 13 Briefly explain User Datagram Protocol (UDP). List its uses. (10)
  - 14. Explain in detail about Domain Name System. (10)
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