



K26P 0074

Reg. No. :

Name :

I Semester M.C.A. Degree (C.B.S.S. – Reg./Supple./Imp.)

Examination, November 2025

(2022 Admission Onwards)

MCA1C04 : DATA COMMUNICATION AND COMPUTER NETWORK

Time : 3 Hours

Max. Marks : 60

SECTION – A

Answer all questions. Each question carries two marks.

(10×2=20)

1. What do you mean by full duplex transmission ?
2. Write functions of presentation layer in ISO OSI reference model.
3. What do you mean by composite signals ?
4. Write the need for DTE-DCE interface.
5. What do you mean by stop and wait protocol ?
6. What is the need for Huffman code ?
7. List various ways to do address mapping in networks.
8. What are the features of routers ?
9. What do you mean by Domain Name System ?
10. Mention the ways for network security.

SECTION – B

Answer all questions. Each question carries eight marks.

(5×8=40)

11. A) Explain about various types of networks in detail.

OR

- B) Compare guided and unguided transmission media.

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12. A) Explain multiplexing in networks.

OR

B) Compare X.21 and EIA232 interface.

13. A) Explain various error detection mechanisms in networks.

OR

B) Write notes on Token Bus and Ethernet.

14. A) Explain any two internetworking devices in detail.

OR

B) Discuss routing in networks in detail.

15. A) Write detailed notes on SNMP protocol.

OR

B) Describe process to process delivery in computer networks.

