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M.C.A. EXAMINATION, 2026

(Fourth Semester)

(From 2021-22 Onwards)

(Re-appear Only)

DATA COMMUNICATION AND NETWORKING

Time : 3 *Hours*] [*Maximum Marks :* 48

Before answering the question-paper, candidates must ensure that they have been supplied with correct and complete question-paper. No complaint, in this regard will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. **1** is compulsory.

(Compulsory Question)

1. Explain the following : **6×2=12**

(a) Network Topology

(b) ATM

(c) Bandwidth

(d) FDM

(e) GSM

(f) Network Layer.

Unit I

2. Explain OSI Reference Model and its layers. **9**

3. Explain the following : **9**

(a) Internet

(b) Frame Relay

(c) WAN.

Unit II

4. Explain the satellite communication in detail. **9**

5. Explain the following : **9**

(a) Twisted Pair Cable

(b) Optical Fiber Cable.

Unit III

6. Explain IEEE 802.4 in detail. **9**

7. Explain the following : **9**

(a) CDMA

(b) Error Detection and Correction.

Unit IV

8. Explain Load Shedding in detail. **9**

9. Explain the following : **9**

(a) Routing Algorithms

(b) Choke Packets.

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