MSCCS-11/MSCCS-205/MSCCSC-205/MCA-205

June - Examination 2026

MSCCS (Final)/MCA (IInd Year) Examination

Data Communication and Network

Paper : MSCCS-11/MSCCS-205/MSCCSC-205/MCA-205

[*Time: **3** Hours*] [*Maximum Marks: **80***]

Note :- The question paper is divided into three Sections A, B and C. Write answers as per the given instructions.

Section-A **8×2=16**

(Very Short Answer Type Questions)

Note :- Answer **all** questions. As per the nature of the question delimit your answer in one word, one sentence or maximum up to **30** words. Each question carries **2** marks.

1. (i) What is Modulation?
   (ii) What is DNS?
   (iii) What is FDDI?
   (iv) What is Modem?
   (v) Define FTP.
   (vi) Define Multiplexing.
   (vii) What is Token Ring?
   (viii) What is IEEE 802?

Section-B **4×8=32**

(Short Answer Type Questions)

Note :- Answer **any four** questions. You have to delimit your each answer maximum up to **200** words. Each question carries **8** marks.

2. Distinguish among LAN, WAN & MAN.
3. What is Congestion Control?
4. Describe Packet Switching.
5. Explain the difference between Asynchronous & Synchronous Transmission with example.
6. Explain IPv4.
7. Write note on HDLC.
8. Explain error detection in Data Link Layer.
9. What is Piggybacking? Give its importance.

Section-C

2×16=32

(Long Answer Type Questions)

Note :- Answer **any two** questions. You have to delimit your each answer maximum up to **500** words. Each question carries **16** marks.

10. Write difference between Ring Bus & Mesh Topology.

11. Explain ATM architecture.

12. Explain various types of Multiplexing.

13. Explain TCP/IP Model in detail.
