MSCCS–11/MSCCS–205/ MSCCSC–205/MCA–205

December – Examination 2023

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 data communication ?

(iii) What is the use of ARP and RARP ?

(iv) What is port number ?

(v) What do you understand by Broadcast Networking ?

(vi) What is ping program ?

(vii) Describe the role of DNS.

(viii) What is full form of FDDI ?

Section–B   4×8=32

(Short Answer Type Questions)

Note :– Answer any *four* questions. Each answer should not exceed **200** words. Each question carries 8 marks.

2. Explain Domain Name System (DNS).

3. Write a short note on the Coaxial Cables.

4. Describe circuit switching and packet switching.

5. Write a short note on congestion control.

6. What is piggy backing ? Give its importance.

7. Write a short note on HDLC.

8. Explain the working of RPC in detail.

9. Explain the working of modems and its types.

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 the difference between ring, bus and mesh topology.

11. Explain the differences between OSI model and TCP/IP model in detail.

12. Explain ATM and its ATM Architecture.

13. What is Multiplexing ? Explain various types of Multiplexing in detail.