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

June – 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 do you mean by Computer Networks?

(ii) What is Band Rate?

(iii) What is full form of TCP?

(iv) Write any *two* name of routing protocols.

(v) What do you mean by IP Address?

(vi) What is use of Checksum?

(vii) Define Full Duplex.

(viii) What is Multiplexing?

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. What is relation between Datalink Layer and Network Layer?   4×2=8

3. Explain Mesh Topology.   8

4. Write short notes on the following :

(a) Hub

(b) Switch   4×2=8

5. Write difference between IPV4 and IPV6.   4×2=8

6. What is point to point and Multipoint Connection?
                    4×2=8

7. What is congestion control?   8

8. Explain Data link layer of OSI Model.   8

9. Explain CRC method.   8

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. Explain OSI model in detail.   16

11. Write difference between LAN, MAN and WAN.
                    5+5+6=16

12. Explain various topologies and their advantages and disadvantages.   16

13. Write short notes on the following :

(a) TCP

(b) UDP

(c) SMTP

(d) HTTP   4×4=16