

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

**December – Examination 2022**

**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 Data Communication ?
- (ii) What do you mean by Bandwidth ?
- (iii) Define Protocol.
- (iv) What is TCP ?
- (v) What is the full form of HTTP ?
- (vi) Give *two* names of transmission medium.
- (vii) What is Topology ?
- (viii) What do you mean by bps ?

**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). 8
3. What is Star Topology ? 8
4. What is ATM Network and its applications ? 2+6=8
5. What is FDDI ? Explain it. 2+6=8
6. Write short notes on the following :
  - (i) Router
  - (ii) Bridge 4+4=8

7. What is Hamming Distance ? 8
8. Explain CSMA/CD in detail. 8
9. What is the difference between Simplex and Half-duplex communication ? 4+4=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. Write the difference between ring, bus and mesh topology. 5+5+6=16
11. What is ISDN ? Explain its system architecture. 4+12=16
12. Explain TCP and UDP in detail. 8+8=16
13. What do you mean by transmission medium ? Explain it in detail. 4+12=16