MSCCS-11/MSCCS-205/ MCA-205

June/December – Examination 2020

MSCCS (Final)/MCA (IInd Year) Examination

Data Communication and Network

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

Time : 2 Hours]   [*Maximum Marks : 80*

Note :– The question paper is divided into two Sections A and B. 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 Throughput ? Give an example.

   (ii) What is Packet ?

   (iii) What is the use of *ping* in ICMP ?

   (iv) What is Port Number ? Give an example.

   (v) What is the importance of Cryptography ?

   (vi) Give the technology specification of 100 Base-T LAN.

   (vii) What do you mean by FDDI ?

   (viii) Draw the topological structure of Star Topology with 6 nodes.

Section–B   4×16=64

(Short Answer Type Questions)

Note :– Answer any *four* questions. Answer should not exceed **200** words. Each question carries 16 marks.

2. Explain Shannon's data communication model.

3. Explain twisted pair and optical fibre guided media cables.

4. What is Piggybacking ? Give its importance.

5. Explain the various techniques used to improve quality of service.

6. Write a short note on the frame relay.

7. Explain the working of SMTP with suitable examples.

8. Explain the working of Remote Procedure Call.

9. Differentiate between synchronous and asynchronous transmission.