

MCA-19
December – Examination 2020
Master of Computer Application
(IIIrd Year) Examination
Data Communication and
Computer Networks
Paper : MCA-19

Time : 2 Hours]

[Maximum Marks : 80

Note :- The question paper is divided into two Sections A and B. Write answer 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 upto **30** words. Each question carries 2 marks.

1. (i) List all seven layers of the OSI model.
- (ii) What is Socket ?
- (iii) What are User Datagrams ?
- (iv) What do you mean by Throughput ?
- (v) What do you mean by backbone network ?
- (vi) What is DNS ?
- (vii) What do you mean by Virtual LAN ?
- (viii) What is the use of the ARP protocol ?

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. Discuss the various modes of communication.
3. Distinguish between connection oriented and connectionless services of TCP/IP reference model.
4. Explain fiber optic cables. What are the advantages of fiber optic cables over coaxial cables ?

5. What is the data unit of 'Transport layer' ? What are the functions of a Transport Layer in OSI Model ?
6. Distinguish between guided media and unguided media with suitable examples.
7. Explain stop and wait ARQ you with a suitable example.
8. Explain the concept of the Simple Mail Transfer Protocol giving suitable examples.
9. Write a short note on the Client-server model.