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MCA-19

June – Examination 2020

Master of Computer Application (III Year) Examination

Data Communication and
Computer Networks

Paper : MCA-19

Time : 3 Hours]

[Maximum Marks : 80

Note :- The question paper is divided into three Sections A, B and C. Write answers as per 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 understand by Network Topology ?
 - (ii) What is Asynchronous transmission ?
 - (iii) What is Broadcasting ?

- (iv) What is meaning of protocol ?
- (v) What is working concept of bus topology ?
- (vi) What is meaning of token ?
- (vii) Write any *two* benefits of Computer Networking.
- (viii) What is TCP/IP ?

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. Discuss the type of networks.
3. Discuss various Modes of Communication.
4. Discuss circuit switching.
5. Explain role of series and parallel transmission.
6. Discuss multiplexing and various types of it.
7. Describe differences between guided and unguided media.
8. Describe routing and its use in computer networking.
9. Explain working of Transmission Control Protocol.

Section-C **2×16=32**

(Long Answer Type Questions)

Note :- Answer any *two* questions. You have to delimit your each answer maximum upto **500** words. Each question carries 16 marks.

10. Explain addressing with their suitable examples.
11. Explain the working of various protocols used in network layer protocols and also show their frame formats.
12. Write a short note on :
 - (a) Selective Repeat ARQ method.
 - (b) Connection oriented and Connection less services.
13. Explain various coding methods with suitable examples in digital transmission.