MCA-19

December - Examination 2017

MCA IIIrd year Examination

Data Communication and Computer Networks

Paper - MCA-19

Time : 3 Hours]   **[Max. 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 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 Analog transmission?

    (iii)   What is Broadcasting?

    (iv)   What is meaning of protocol?

    (v)   What is DNS?

    (vi)   What is meaning of SMTP?

    (vii)   Write any two benefits of Computer Networking?

    (viii)   What is UDP?

Section - B   **4 × 8 = 32**

(Short Answer Questions)

Note: Answer **any four** questions. Each answer should not exceed 200 words. Each question carries 8 marks.

2) Discuss the types of networks.

3) Discuss various Modes of Communication?

4) Discuss Virtual LANs.

5) Explain role of internet (TCP/IP) reference model.

6) Discuss multiplexing and various types of it.

7) Describe functioning of PPP stack.

8) Describe routing and its use in computer networking.

9) Explain working of Transmission Control Protocol?

Section - C   **2 × 16 = 32**

(Long Answer 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 mode of communication 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 :
    (i) Various type of Ethernet.
    (ii) Connection oriented and connection less services.

13) Explain various coding methods with suitable examples in digital transmission.

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