MSCCS-11/MSCCS-205/MCA-205

December - Examination 2017

MSCCS-Final/MCA-IInd Year Examination

Data Communication and Networks

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

Time : 3 Hours]   **[Max. Marks :- 100**

Note: The question paper is divided into three sections A, B and C. Write answers as per given instructions.

Section - A $10 \times 2 = 20$

(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 upto 30 word. Each question carries 2 marks.

1)   (i)   What is data communication network?

    (ii)   What is modulation?

    (iii)   What is the use of Multiplexing and De-multiplexing?

    (iv)   What is the role of concentrators in data communications?

    (v)   What do you understand by Broadcast networking?

    (vi)   What is difference between virtual circuits and circuit switching?

    (vii)   Write any tow benefits of Internet Protocol Stack?

(viii) What is the full form of FDDI?

(ix) What do you mean by Transmission media?

(x) What is difference between Intranet and Internet?

Section - B $4 \times 10 = 40$

(Short Answer Questions)

Note: Answer **any four** questions. Each answer should not exceed 200 words. Each question carries 10 marks.

2) Discuss multiple access protocols.

3) Explain the functionality of frame relay?

4) Discuss the X.25 Networks.

5) Describe point to point network and its topologies.

6) Explain asynchronous and synchronous transmission.

7) Describe all types of data encoding techniques.

8) Describe the functionality of FDM.

9) Explain the working of modems and its types.

Section - C $2 \times 20 = 40$

(Long Answer Questions)

Note: Answer **any two** questions. You have to delimit your each answer maximum upto 500 words. Each question carries 20 marks.

10) Describe the functioning of synchronous time division multiplexing with neat and clean diagram.

11) Explain the working of High speed LAN with its neat and clean diagram.

12) Explain ATM and its ATM Architecture.

13) Explain narrow band ISDN with its services, architecture and interfacing techniques.

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