Paper : VI
Data Communication & Network

Time : 3 Hours   *M.M. : 100*

Note—   Attempt any FIVE questions.

I.   What do you mean by Networking ? Why Networking is requred ? Discuss various topologies of networking with their advantages and disadvantages.   20

II.   Explain TCP/IP Reference model. Also write the Protocols used with each and every layer in detail.   20

III.   Discuss the followign :

(A) X-25 Networks

(B) B-ISDN and ATM Reference model. 10×2

IV.   How multiplexing plays an important role in Data Communication and Networking ? Discuss in detail.   20

V.   (A) Fourier Analysis   (B) Data Transfer modes.

VI.   Explain : (A) HDLC protocol (B) PPP Protocol.

VII.   Differentiate the following :

(A) Synchronious and Asynchronous Transmission modes.

(B) Connection less and connection oriented services. 10×2

VIII. Give the details of guided and unguided media used for the exchange of Information.   20

IX.   Explain IEEE standard 802.4 : Token BUS. Also tell tht how Ring Management is done in it.   20

X.   Write notes on following :

(A) Modems   (B) Error Detecting Codes

(C) Flow Control   (D) Frame Relay.