Roll No ....

IT - 501
B.E. V Semester
Examination December 2012
Data Communication

Time : Three Hours

Maximum Marks : 70/100

Note: Attempt *One* question from each unit
All questions carry equal marks.

Unit - I

I.   (a)   Explain what do you understand by Baseband & Broad Band transmission.

     (b)   Differentiate between attenuation and distortion.

     (c)   Explain sampling theorem and. Nyquist criteria.

OR

II.   (a)   Discuss about the Shannon capacity of channel

     (b)   Explain the following

        (i) Throughput (ii) Delay (iii) Jitter

Unit - II

III.   Explain the following :

    (a) Synchronous and Asynchronous Transmission

    (b) RZ and NRZ codes

OR

IV. Explain the following

(a) Parallel & serial transmission

(b) Point to point and point to multi point configuration.

Unit - III

V. (a) Explain the working principle of VDSL.

(b) Discuss the standards of SDH hierarchy.

OR

VI (a) Differentiate between FDM, TDM and WDM.

(b) Discuss the standards of plesiochronous digital hierarchy.

Unit - IV

VII (a) Explain briefly about the hybrit switching Technique.

(b) With the help of Block diagram explain ISDN.

OR

VIII (a) Discuss briefly about vertical and longitudinal redundancy check codes.

(b) Discuss about the ISDN protocols.

Unit - V

IX. Write short notes on the following

(a) Infrared transmission. (b) RJ - 45

OR

X. Write short notes on the following

(a) Microwave transmission (b) Network interface card.

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