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Roll No

CS - 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) Differentiate between serial and parallel transmission.
- (b) Explain briefly about L2 Compression technique.

OR

- II (a) Discuss about the frequency dependent codes.
- (b) Explain how Image & multimedia compression obtained.

Unit - II

- III (a) With the help of block diagram explain the working of frequency hopped spread spectrum system.
- (b) Discuss the principle working of ISDN

OR

- IV (a) Discuss the principle working of direct sequence spread spectrum system.
- (b) Explain the packet switching technique.

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Unit - III

V Write short notes on the following

- (a) RJ - 45
- (b) ITU-TV series modem

OR

VI Write short notes on the following

- (a) Group Band and Null modems
- (b) Three layer switches

Unit - IV

- VII (a) Explain the principle of transmission in optical fibers.
(b) Discuss the terrestrial propagation of electro magnetic waves.

OR

- VIII (a) Discuss the principle working of LASER
(b) Compare HDSL, SDSL and VDSL

Unit - V

- IX (a) Discuss the methods of error control.
(b) Explain the principles of CRC codes

OR

- X Explain briefly about the following codes
(a) Hamming code
(b) Block codes.
