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# 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

- (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

- (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.

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