Total No. of Questions: 10] [Total No. of Printed Pages: 3

Roll No.

CS-501(N)

B. E. (Fifth Semester) EXAMINATION, Dec., 2010

(New Scheme)

(Computer Science & Engg. Branch)

DATA COMMUNICATION

[CS - 501(N)]

Time: Three Hours

Maximum Marks: 100

Minimum Pass Marks: 35

Note: Attempt any *one* question from each Unit. All questions carry equal marks.

Unit-I

- 1. (a) Explain different modes of data transmission.
 - (b) What is the need of Data Compression? Explain different techniques of data compression.

Or

- 2. (a) Discuss briefly about the frequency dependent codes.
 - (b) Explain about the image and multimedia compression.

Unit-II

3. (a) Discuss about the different multiplexing techniques and compare them.

(b) With the help of a block diagram explain the principle of working of frequency hopped spread spectrum.

Or

- 4. (a) What do you understand by terminal handling and poling?
 - (b) Explain the principle of working of hybrid switching technique.

Unit-III

- plain or following:

Crisis Indian

(1) EIA-449 digital interface

Discuss the V-series modem standards.

Or

- o. (a) With the help of block schematic, explain the working of three layer switches.
 - (0) Explain and differentiate between active and passive hub.

Unit-IV

- 7. (a) Briefly discuss about the light sources used in optical
 - (b) What are help of block diagram explain the working of ADSL.

Or

- 8. (a) Discuss about the losses in optical communication.
 - (b) Explain the principle of transmission in terrestrial propagation.

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Unit-V

- 9. (a) Explain briefly different methods of error detection.
 - (b) Discuss CRC code generation.

Or

- 10. (a) What are the different methods of error correction?
 - .(b) What are interleaved codes? How are they good for communication?