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Total No. of Questions :10]

[Total No. of Printed Pages :2

Roll No

EC-501

BE V Semester

Examination December 2012

Voice and Data Communication

Time : Three Hours

Maximum Marks : 70/100

- Note :** 1. Attempt one question from each unit.
2. All questions carry equal marks.

Unit - I

1. a) Explain the principle working of Electronic Telephones.
b) Discuss briefly about voice frequency circuit arrangements.

OR

2. a) Explain the procedure of a call execution.
b) What are the reasons of cross talk? How it can be reduced?

Unit - II

3. a) Explain the working of automated central office switches.
b) Differentiate between different exchanges.

OR

4. a) Explain the common channel signaling system.
b) Discuss briefly about telephone switching hierarchy.

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[2]

Unit - III

5. a) Explain briefly about digital carrier line encoding.
b) Discuss briefly about composite baseband signal.

OR

6. a) Explain briefly about FDM hierarchy.
b) Differentiate between TDM, FDM and WDM.

Unit - IV

7. Explain the following :
 - a) Digital to Digital encoding.
 - b) Shannon capacity.

OR

8. Explain the following :
 - a) DTE - DCE interface.
 - b) MODEM.

Unit - V

9. a) Explain cyclic Redundancy check codes.
b) Explain the principle of time division circuit switching technique.

OR

10. a) Explain the error correction Hamming code.
b) Differentiate between packet and message switching.

EC-501