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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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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.
