

Roll No

EC - 501(NGS)

B.E. V Semester

Examination, December 2012

Voice Communication

(Non Grading Scheme)

Time : Three Hours

Maximum Marks : 70/100

Note: Attempt *One* question from each unit.
All questions carry equal marks.

Unit - I

- I (a) Discuss the basic call procedure in telephony.
- (b) Discuss the voice frequency circuit arrangements.

OR

- II (a) Discuss the working of cordless telephone.
- (b) Discuss about the transmission parameters of telephonic channel.

Unit - II

- III (a) Explain the frequency division multiplexing & its hierarchy.
- (b) Discuss about network blocking probabilities.

OR

- IV (a) Explain the working of automated central office switches & exchanges.

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- (b) Discuss how traffic characterization and measurement done.

Unit - III

- V (a) How is voice digitization done.
- (b) Explain the recovery of the clock and framing bit?

OR

- VI (a) Discuss about the super frame TDM format.
- (b) Discuss about the codec and combo chips

Unit - IV

- VII (a) Differentiate between synchronous & asynchronous transmission.
- (b) Explain the principle of TDM loops and rings.

OR

- VIII(a) Discuss about the inter symbol interference and how it could be reduced.
- (b) What do you understand by the partial response signalling?

Unit - V

- IX Write a note on the following
 - (a) Multistage switching
 - (b) Digital cross connect systems

OR

- X Write a note on the following
 - (a) Space division switching
 - (b) STC & TST switching
