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Roll No

EC - 501

B.E. V Semester

Examination, December 2015

Voice and Data Communication

Time: Three Hours

Maximum Marks: 70

- Note: i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.
 - ii) All parts of each questions are to be attempted at one place.
 - iii) All questions carry equal marks, out of which part A and B (Max.50 words) carry 2 marks, part C (Max.100 words) carry 3 marks, part D (Max.400 words) carry 7 marks.
 - iv) Except numericals, Derivation, Design and Drawing etc.
- 1. a) What is subscriber loop?
 - b) Define the channel noise.
 - List different call progress tones with their frequency and ON/OFF duration.
 - d) List and explain the different transmission parameters.

OR

What do you understand by cross talk, Explain atleast two types of them.

- 2. a) What is local loop?
 - b) Explain trunk circuit in short.
 - c) What are the functions of a telephone set?

d) What do you mean by common channel signaling system? Explain in detail.

OR

Explain the working of automatic exchanges with block diagram.

- 3. a) What is base band signal?
 - b) Explain bit and word interleaving.
 - c) Differentiate between TDM and FDM.
 - d) Explain the wavelength division multiplexing in detail.

OR

Write short notes on codecs and combo chips.

- 4. a) What is Modem?
 - b) What is digital to digital encoding?
 - c) Explain DTE-DCE interface.
 - What do you mean by transmission media? Discuss guided and unguided media.

OR

Discuss the topology and explain its types with suitable diagram.

- 5. a) What is hamming distance?
 - b) Discuss about cyclic code.
 - Explain briefly about redundancy check.
 - d) Explain space-time division circuit switching.

OR

What do you mean by virtual circuit and datagram packet switching?
