[Total No. of Printed Pages : 2 Total No. of Questions: 7 Roll No. EC-501 B. E. (Fifth Semester) EXAMINATION, Dec., 2011 (Electronics & Communication Engg. Branch) VOICE COMMUNICATION (EC - 501)Time: Three Hours Maximum Marks: 100 Minimum Pass Marks: 35 Note: Attempt any five questions. All questions carry equal marks. Draw the block diagram of Telephony system and explain function of each block in detail. (b) Explain how a caller is identified and what is local subscriber loop. 10 2. (a) How can a suppressor be designed such that the interdigit gap precedes the dialing pulses? (b) In stronger exchanges, a call may be blocked, even though an appropriate path through the switch exists. Explain how this can happen. 10 3. (a) Define each of the following terms: 10 Programs, procedure, processor, process, user, task, job and subroutine. (b) Deadlock may occur in a road traffic function. Illustrate this with the help of a diagram. 10

P. T. O.

5. D ex op (a	transmission of speech over analog transmiss b) How much does the SQR of a uniform PCM improve when one bit is added to the codew determine the maximum and minimum delay that sperienced by an input sample in a TTTT switcherating mode for all the switches is:) Phased mode) Time slotted mode	ion, 10 encoder ord? 10
6. Wr (a) (b) (c) (d) 7. (a)	Intersymbol interference Code space redundancy Coded mark inversion Differential encoding	