Total 1	No. of Questions: 10] [Total No. of Printed Pages: 2		b)	What is common channel signaling system number
Poll No.				7(SS7)? Give its network functions. 7 Unit - III
	Roll No	5.	a)	With the help of examples, explain line coding in detail.
EC - 501			i-	7
	B.E. V Semester	gpvonli	b)	· · · · · · · · · · · · · · · · · · ·
	Examination, December 2013			OR
	Voice and Data Communication	6.	a)	With the help of a block diagram, explain multichannel.
	Time: Three Hours		b)	TDM system. 7 Compare between bit interleaving and word interleaving.
	Maximum Marks: 70			7
				Unit - IV
Note:		7.	a)	Write notes on:
	All questions carry equal marks.			(i) Interface Standards (ii) Modem
	Unit - I		b)	Explain and prove Shannon's theorem. 7 OR
1. a)	List the essential components used in a standard telephone	8.	a)	Explain all the seven layers and their functions of OSI.
	set. Show them with the help of a block diagram. Briefly			7 b) Holing and evident generalists, Describe three to
	explain these components.		b)	Describe DTE-DCE interface. Distinguish between guided
b)	Define and explain cross talk. Describe three types of			media of transmission with its unguided media. 7
- C	cross talks in short.			Unit - V
•	Chem belong in an OR noted instead by subseq	9.	a)	Explain stop-and-wait ARQ and selective- Repeat ARQ?
2. a)	Draw the block diagram of an electronic telephone. Explain			7 b) Exeluin various types of voice frequency a
	its various blocks.		b)	Compare the processes of virtual and datagram
b)	Explain various types of voice frequency circuit			switching. 7
	arrangements. 7			a sy (commare local central AO ice relephone exchani
2 -)	Unit - II	10.	a)	Compute the CRC-4 character for 1100 0110 101101
3. a)	Compare local central office telephone exchange and			using a divisor constant of 10011.
b)	operator assisted local exchanges.			Describe message switching. Compare it with circuit and
bm fix	Explain the hierarchy of switching offices. 7 OR			packet switching. 7
4. a)	With an example describe a telephone numbering plan.			
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