## Important Note: 1..:On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. 2. Any revealing of identification, appeal to evaluator and for equations written eg, 42+8 = 50, will be t

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## Second Semester M.Tech. Degree Examination, June/July 2015 Switching and statistical Multiplexing in Telecommunications

IHI	ne: ;	3 hrs. Max. M	atks:100
		Note: Answer any FIVE full questions.	
1	a.	Explain the basics of a switching system with neat diagram.  Explain the simple telecommunication system with neat diagram.	(10 Marks)
	b.	Explain the simple telecommunication system with neat diagram.	(10 Marks)
2	a.	Explain the advantages of digital voice network,	(12 Marks)
	b.	Explain the principle of cross bar switching with neat diagram.	(08 Marks)
3	a.	Explain the cross paint technology with neat diagram.	(08 Marks)
	b.	Explain the design considerations of touch tone dail signaling with neat diagram.	(12 Marks)
1	a.	Explain the two stage network in electronic space division switching with neat dia	gram.
	b.	Explain the Time Division multiplexing TDM in digital transmission system.	(10 Marks) (10 Marks)
5	a.	Explain the distributed stored programme control in electronic space division system.	_
	b.	Explain the enhanced services due to stored programme control.	(08 Marks) (07 Marks)
	c.	Explain the sampling in digitizing speech.	(05 Marks)
í	a.	Explain the two stage time space(TS) switch and two stage space time (ST)	with neat
		diagram.	(10 Marks)
	b.	Explain the time slat interchange (TSI) with neat diagram.	(10 Marks)
7	a.	Explain the time division space switching with neat diagram.	(10 Marks)
	b.	Explain the grade of service (GOS) and blacking probability.	(06 Marks)
	c.	In a group of 10 servers, each is occupied for 30 minute in a observation inter	val of two
		hours, calculate the traffic carried by the group.	(04 Marks)
	2	Derive an expression for Erlang loss formula.	(40.75 1 )
8	a,	EDULIVE OIL CADICOSION FOR ENGINE ROSS TOTALINA.	(10 Marks)