

Code No: **QT41042**

R13

Set No. 1

IV B.Tech I Semester Supplementary Examinations, February/March - 2018 ELECTRONIC SWITCHING SYSTEMS

(Electronics and Communication Engineering)

Time: 3 hours Max. Marks: 70

Question paper consists of Part-A and Part-B Answer ALL sub questions from Part-A Answer any THREE questions from Part-B *****

PART-A (22 Marks)

		<u>FARI-A</u> (22 Marks)	
1.	a)	With neat sketch Manual Switching System.	[3]
	b)	Discuss about centralized SPC.	[3]
	c)	Discuss the charging plan used in telephone networks.	[4]
	d)	State and explain 'Erlang B' formula for offeredtraffic intensity 'A' and 'No. of	
	ĺ	Servers 'N'.	[4]
	e)	State and explain formula for the Grade of Service of loss systems in tandem.	[4]
	f)	Write Short notes on Numbering and Addressing of ISDN.	[4]
		$\underline{PART-B} (3x16 = 48 \text{ Marks})$	
2.	a)	How are switching systems classified? Explain a how stored program control is	
		superior to hard wired control.	[8]
	b)	Write a brief note on Crossbar Systems. Draw neat diagrams.	[8]
3.	a)	In n stage Combination switching, a trade-off between blocking probability and	
	,	time delay is possible. Explain?	[8]
	b)	Explain Time division multiplexing.	[8]
4.	a)	What are the factors that limit the length of subscribes loop? Discuss them.	[8]
	b)	Explain in detail CCITT Signaling System no.7.	[8]
5.	a)	What is the significance of Broadband Networks? Explain.	[8]
	b)	Describe different traffic measurement units in Telecommunication Network.	[8]
6.	a)	Explain in detail Sectionalized Switching Networks.	[8]
	b)	What is Call Packing? Explain.	[8]
7.	a)	Explain the difference between ISDN and BISDN.	[8]
	b)	Write short notes on Transmission Channels.	[8]