

Code No: **R41045**

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Set No. 1

IV B.Tech I Semester Supplementary Examinations, Oct/Nov - 2018 TELECOMMUNICATION SWITCHING SYSTEMS

(Electronics and Communication Engineering)

Time: 3 hours

Max. Marks: 75

Answer any FIVE Questions All Questions carry equal marks *****

1	a)	What is the significance of SPC and explain the differences between Centralized and Distributed SPC?	[8]
	b)	What are the different switching network configurations? Compare their features.	[7]
2	a)	What is the significance of Combination Switching? Give two stage TS switching network configuration and explain.	[7]
	b)	Find the blocking probability of three stage network for $M = N = 2048$, $p = q = 16$	
		$\alpha = 0.1$ for $S = 16$, 24 and 32.	[8]
3	a) b)	With examples explain the national and international numbering plans. Explain about switching hierarchy.	[7] [8]
4	a)	An exchange is designed to handle 2000 calls during busy hour. One day, the number of calls during busy hour is 2200. What is the resulting GoS (Grade of Service).	[7]
	b)	Compare in channel signaling and common channel signaling.	[8]
5	a)	What is the need for layered architecture? Explain.	[7]
	b)	Discuss peer to peer and client/server networks.	[8]
6	a)	Explain all the seven layers of OSI model in detail.	[7]
	b)	Write short notes on public switched network.	[8]
7	a)	Discuss about ISDN interfaces.	[7]
	b)	Explain the protocol architecture of ISDN.	[8]
8	a)	Write short notes on CMTS.	[7]
	b)	Write short notes on "HFC networks".	[8]