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## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, May/June - 2013

**Telecommunication Switching Systems** 

(Electronics and Communication Engineering)

Time: 3 Hours

Max. Marks: 75

R09

## Answer any Five Questions All Questions Carry Equal Marks

1.a) b)	Describe the classification of switching system Explain the principle of crossbar switching.	is.		[10+5]	
2.a) b)	Define the terms: Equipment Utilization Factor In a step-by-step switching system it is possible the decimal system. Given that cost of a tw $C_s = 100 + 0.25b^2$ units, where 'b' is the numb that would result in the minimum cost for a sound Make suitable assumptions, if needed.	e to use a vo motion per base, d	number sys selector is etermine th	stem other them is governed by the value of 'b	y,'
3.a) b)	What are the applications of gradings? Compare the features of single stage and multi-	stage netw	vorks.	[5+10]	
4.a) b)	Describe time division time switching. What do you mean by combination switching?			[10+5]	
5.a) b)	What do you meant by stored program control? Describe CCITT SS7.	?		[6+9]	
6.a) b)	Describe high level data link control protocol. Explain the concept of statistical multiplexing.		100 phil c 200 phil c 3, 3 2	[10+5]	
7.a) b)	Bring out a comparison of bus and ring networ.  Describe the architecture of ISDN.	ks.		[8+7]	
8.	Write short technical notes on. a) Intelligent networks.	, in the second		[8+7]	
	<ul><li>b) Cellular radio network features.</li><li>c) ATM switches.</li></ul>			[15]	