Reg. No.:					

Question Paper Code: 53P22

M.E. DEGREE EXAMINATION, NOV 2017

Third Semester

Communication Systems

	15PCM302 – TELEC	COMMUNICATION	N SWITCHING AND	MANAGEMENT					
		(Regulati	on 2015)						
	Duration: Three hours			Maximum: 100 Marks					
	Answer ALL Questions								
	PART A - $(5 \times 1 = 5 \text{ Marks})$								
1.	A switching network with N inlets and M outlets is said to be symmetric network when								
	(a) N>M	(b) N=M	(c) N <m< td=""><td>(d) None of these</td></m<>	(d) None of these					
2.	To activate the appropr	tivate the appropriate control signal, a control word in binary conditions contains							
	(a) bit pattern	(b) frames	(c) packets	(d) stream of bits					
3.	At night time, which of the following layer disappear due to absence of ultraviole radiation								
	(a) D	(b) E	(c) F1	(d) F2					
4.	The information rate used in D transmission channel is								
	(a) 64 Kbps	(b) 384 Kbps	(c) 1536 Kbps	(d) 1920 Kbps					
5.	Measure of traffic intensity is								
	(a) call seconds	(b) call minutes	(c) centum call secon	nd (d) all the above					
	PART B - $(5 \times 3 = 15 \text{ Marks})$								
6.	List out the factors whi	ch affect the function	oning of uniselector.						

- 7. Describe the different operating modes in dual processor.

9.	Wh	y two-stage dialing is less preferred than single-stage dialing?	
10.	Dis	cuss on Grade of service for better service.	
		PART C - $(5 \times 16 = 80 \text{ Marks})$	
11.	(a)	Describe in detail about the strowger switching mechanism.	(16)
		Or	
	(b)	Describe and distinguish blocking and non blocking networks.	(16)
12.	(a)	Apply the stored program concept to improve the functioning of central switching system.	alized (16)
		Or	
	(b)	Compare and contrast the functioning of time division and time multiplexed switching.	time (16)
13.	(a)	Explain about the different factors used to define transmission loss.	(16)
		Or	
	(b)	Discuss in detail on various charges on a subscriber for a telecommunication ser	rvice. (16)
14.	(a)	Explain, how the information can be transferred in open channel teletext.	(16)
		Or	
	(b)	Describe in detail about coexistence of ISDN with other networks. Also explain technique used to improve the data rate supported by ISDN.	in the (16)
15.	(a)	Discuss in detail on TMN using its functional model and logical model.	(16)
		Or	
	(b)	How will you improve the grade of services in terms blocking probability?	(16)

8. Draw the architecture of SS7.