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1/3	TE	OF TE	5EC654
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17	Variable of the last	D.E. Daniel Evamination June/July 2019	
13	Constilli	Sixth Semester B.E. Degree Examination, June/July 2019	
Digital Switching Systems Max. Marks: 80			
Tin	ie43	Cm367	IKS. 60
Note: Answer any FIVE full questions, choosing ONE full question from each module.			
		Module-1	1
1	a.	With a neat diagram explain the working principle of four wire circuit. Also	give the (10 Marks)
	h	equations for echoes. Explain the hierarchy of national public switched telecommunication network	**************************************
	b.	diagram.	(06 Marks)
		OR	
2	a.	4 * Ob. *********************************	(08 Marks)
-	b.	Express the following power levels in dBm and dBw. i) 1mW ii)1W iii)2mW iv)	100mW.
			(08 Marks)
ž		Module-2	
3	a.	iskpitini die tabettono or ottitetimo of ottitetimo	(08 Marks) (08 Marks)
	b.	Explain the working of distribution and a second	(00 Marks)
	63	OR	(00 Mayles)
4	a. b.	2	(08 Marks) (08 Marks)
	0.		(
5	a.	Module-3 Derive the Erlang's lost call formula with iterative application of recurrence relation	n.
3	a,		(09 Marks)
	b.	A group of 20 trunks provides a grade of service of 0.01 when offered 12E of tra	iffic. How
		much is the grade of service improved if 2 extra trunks are added to the group? I does the grade of service deteriorates if one trunk is out of service?	(07 Marks)
			(07 1720110)
6	a .	OR Design a grading for connecting 20 trunks to switches having ten outlets.	(08 Marks)
U	b.	Derive the expression for minimum number of cross points in a three stage netwo	
			(08 Marks)
	st.	Module-4	
7	av	Dilpimin Time - Part 4	(08 Marks)
	b.	Explain synchronization and frame alignment of PCM signals in digital exchange.	(08 Marks)
		OR	WANTED THE PLANT
8	a.	Privily suprimite and an activity and a suprimite and a suprim	(08 Marks) (08 Marks)
	b.		(00 Marks)
•		Module-5 Description linear force of DSS control office	(10 Mayle)
9	a. b.	Describe the various organizational interfaces of DSS central office. Briefly explain strategy for improving software quality with diagram.	(10 Marks) (06 Marks)
	o.	CMRIT LIBRARY	
4.0	5700	OR BANGALORE - 560 037	(08 Marks)
10	a. b.	Explain generic switch hardware architecture with neat diagram. Write short note on: i) Reliability analysis ii) Recovery strategy.	(08 Marks)
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