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Roll No.

328631(28)

B. E. (Sixth Semester) Examination, 2020

(Old Scheme)

(ET & T Engg.)

TELECOMMUNICATION SWITCHING CIRCUITS & NETWORKS

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: Part (a) from each question is compulsory.

Solve any two parts from parts (b), (c) and
(d) of each question.

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1. (a) Define transit exchange.

2

(b) What are the advantages of Automatic switching system over manual exchange.

7

[2]

[3]

	(c)	What are the different signalling tones in an automatic	
		exchange?	7
	(d)	Write short note on cross-bar exchange.	7
•		Unit-II	
2.	(a)	What do you mean by speech digitization?	2
	(b)	What are the types of fibers? Explain with suitable	
		diagram.	7
	(c)	Draw and explain the time division switching	
		technique.	7
	(d)	Write short note on optical detector.	7
		W. What Unit-III	
3.	(a)	Define Erlang (E).	2
	(b)	Draw and explain Telecommunication network	
		topologies.	7
	(c)	With the help of suitable diagram, explain the process	
		of echo suppressor in the returning path.	7
	(d)	What is the objective of number plan?	7
		Unit-IV	

4.	(a) What do you meant by Entity?	2		
	(b) Explain data rates in PSTN.	.7		
	(c) Differentiate between voice traffic & data traffic.	7		
	(d) Draw and explain ISO-OSI reference model.	7		
Unit-V				
5.	(a) Enlist any four services that ISDN supports.	2		
	(b) What are the three motivational factors that are responsible for the development of ISDN.	7		
	(c) Draw and explain the ISDN architecture.	7		
	(d) Write short note on ISDN standards.	7		