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Roll No. : .....

## 328848(28)

APR-MAY2022

B. E. (Eighth Semester) Examination, 2020

(New Scheme)

(Et. & T Engg. Branch)

## TELECOMMUNICATION SWITCHING CIRCUITS and NETWORKS

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: Attempt all questions. In each question Part

(a) is compulsory and from remaining you
have to attempt any two parts (b), (c) & (d).

## · Unit-I

 (a) Define folded network and state the condition for which folded network becomes non-blocking network.

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		[2]				[3]
	(b)	Explain uniselector and two motion selector in brief.	7		(d) E	xplain In-channel signalling in brief.
	(c)	What do you mean by stored program control?				Unit-IV
e.	n m	Explain its types in brief.	7		<b>4.</b> (a) D	efine MODEM.
	(d)	Given that MTBF = 2000 hrs. and MTTR = 4 hrs.				
		Calculate the unavailability for single and dual			` '	xplain different types of switching techniques for
		processor system for 10 years and 30 years.	7	* "	da	ata transmission in brief.
		CASTON THE DRAW CONTRACTOR OF THE PROPERTY OF THE PARTY O			,	xplain with suitable diagram Link to Link layer ommunication.
2.	(a)	Define TDM.	2	>	(d) W	rite short note on: (any one)
	(b)	Explain time division switching and its types in brief.	7		(i)	Satellite based data network
	(c)	Explain software organization of computer controlled			(ii	) ISO-OSI architecture
		switching system.	7		**	Unit-V
	(d)	Explain early electronic switching system in brief.	7		<b>5.</b> (a) D	efine ISDN.
		Unit-III			(b) E:	xplain user level signalling and network level
3.	(a)	Define Grade of Service (GoS)	2	1		gnalling in brief.
	(b)	Explain subscriber loop system with neat sketch.	7	,	(c) E	xplain numbering and addressing scheme of ISDN
2	(c) 3n	Explain numbering plan in brief.	7		in	brief.
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(d) Write short notes on: (any two)

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- (i) ISDN standards
- (ii) Teleservices
- (iii) Electronic Mail