Roll No.:

## 328848(28) multimuitors

## 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: All questions are compulsory. Part (a) is compulsory and from remaining you have to attempt any two parts (b), (c) & (d) of each question. The figures in the right hand margin indicate marks.

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1. (a) What do you mean by folded and non-folded network?

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	(b)	Discuss basic elements of switching system.	7
	(c)	Explain the principle of switching and its switch configuration with neat sketch.	7
	(d)	What is centralised SPC? Explain its working with different modes of configuration.	7
		Unit-II	
2.	(a)	What do you understand by Digital Switching System?	2
	(b)	Explain time division space switching with suitable diagram.	7
	(c)	Explain software architecture of call processing in briefly.	7
	(d)	Discuss the various electronic exchanges in India.	7
		Unit-III	
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3.	(a)	What is GOS of a delay system?	2
	(b)	Explain Birth-Death process with its probabilities.	7
	(c)	How to work in echo suppessors in transmission plan?	7

	(d) What is the basic difference betwenn in-channel signalling and common channel signalling?	7
	Unit-IV	,
4.	(a) Explain to data networks are classified according to geographical coverage.	7
	(b) Discuss various switching techniques for data transmission in PSTN.	7
	(c) Explain the role and importance of end-to-end layers in data communication architecture.	7
	(d) Calculate the through put of pure ALOHA and slotted ALOHA in satellite based data network (SBDN).	7
	Unit-V	
5.	(a) What do you mean by ISDN?	2
	(b) What are various new service supported by ISDN? Give a brief description of few services.	7
	(c) Explain network and protocol architecture of ISDN	J. 7

(d) Explain user level signalling and network level signalling in detail.

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(d) /Culculius the throughput of pure M DIEN and slotted ALORN in satisface based data servers, ISBN 1

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