Student Exam No.

GANPAT UNIVERSITY

B. Tech. Sem. VII (EC)

Regular Examination November/December-2012

EC706 [Elective - II(A)]: Telecom Transmission & Switching

Time: 3 Hours

Instructions:

Total Marks: 70

- 1. Attempt all questions.
- 2. Answers to the two sections must be written in separate answer books.
- 3. Figures to the right indicate full marks.
- 4. Assume suitable data, if necessary.

SECTION-I

1	(A)	What is the need of switching system? State and explain the elements of switching system.	6
-	(B)	Explain the two stage space-time switch with example.	4
	(C)	What is the difference between uniselector and two-motion selector ? OR	2
1	(A)	Draw and explain the common control switching system.	6
*	(B)	Write short note on three stage time-space-time switch.	4
	(C)	What is the difference between the Touch tone dial telephone arrangement and Rotary dial telephone arrangement?	2
2	(A)	Give the difference between Single-stage Network and Multi-stage Network.	6
Ari	(B)	Draw and explain time multiplexed space switching. OR	5
3	(A)	What is 100 - line switching system ? Give the brief idea of different designs.	6
h	(A) (B)	Draw and explain time multiplexed time switching.	5
3	(A)	Explain the birth-death process in detail.	6
5	(A) (B)	Write short note on switching hierarchy and routing.	6

SECTION-II

			4
4	(A)	A group of 20 servers carry a traffic of 10 erlangs. If the average duration of a call is three minutes, calculate the number of calls put through by a single server and the group	
		as a whole in a one-hour period.	
	(B)	Write short note on dual processor architecture in synchronous duplex mode.	4
	(C)	Draw and explain the different signaling tones in automatic exchange.	4
	(0)	OR OR	
A	(A)	Draw and explain three stage space-time-space switch.	4
7	(B)	Write short note on dual processor architecture in load sharing mode.	. 4
		Explain frame alignment in 30 channel PCM system with electronic decision making	4
	(C)		
		process.	
_		The Line Constituted providing in ISDN	6
5	(A)	Explain functional grouping in ISDN.	5
	(B)	Draw and explain PDH multiplexing in north America.	2
		OR detail	6
5	(A)	What is the importance of reference points in ISDN? Explain reference points in detail.	
	(B)	List services that are available through Broadband ISDN.	5
6	(A)	Draw and explain PCM primary multiplexer transmission and reception path in detail.	6
	(B)	Explain payload pointer with necessary figure.	4
	(C)	What is computer integrated telephony?	2
	(0)		
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