GUJARAT TECHNOLOGICAL UNIVERSITYME - SEMESTER- I (New course)• REMEDIAL EXAMINATION – SUMMER 2015Subject Code: 2710505Date:16/05/2015Subject Name: Telecom Switching System, Networks and Network ManagementTime: 10:30 am to 1:00 pmTotal Marks: 70Instructions:1. Attempt all questions.2. Make suitable assumptions wherever necessary.3. Figures to the right indicate full marks.			
Q.1	(a) (b)	Compare automatic and manual switching system. Explain two stage blocking network and derive the equation of blocking probability.	07 07
Q.2	(a)	What is meant by Stored Program Control? Draw and explain organization of a distributed SPC.	07
	(b)	Explain time division time switching and its modes of operation in brief. OR	07
	(b)	Explain birth death process with necessary states and diagrams.	07
Q.3	(a) (b)	Explain time slot interchange switch Enlist different types of photo detectors. Explain any one in detail. OR	07 07
Q.3	(a) (b)	Write a short note on Cellular mobile telephony system. Differentiate LEDs and ILDs with necessary characteristics.	07 07
Q.4	(a)	Define ISDN network. Enlist services offered by ISDN network and explain any two in detail.	07
	(b)	What is store and forward switching ? Explain its classification in brief. OR	07
Q.4	(a) (b)	Explain architecture of SS7 in detail. Explain voice data integration in detail in ISDN network.	07 07
Q.5	(a) (b)	Explain ISDN protocol architecture in detail. Explain (i) monitoring of a total network with individual RMON probes and (ii) firewalls for network protection. OR	07 07
Q.5	(a) (b)	What is subscriber loop ? Explain hierarchy for subscriber loop in detail Explain architecture of SNMP. List the applications of SNMP and explain any two in brief.	07 07
