Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

ME Semester –II Examination Dec. - 2011

Subject code: 1720401 Date: 09/12/2011 Subject Name: Telecom switching system, Networks and Network Management Time: 02.30 pm – 05.00 pm Total Marks: 70			
Instru	1. 2.	ns: Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b)	Write short notes on "single stage networks vs. multistage networks Enlist different network management standards and explain salient features of each standard.	05 05
	(c)		04
Q.2	(a)		07
	(b)		07
	(b)		07
Q.3	(a)	Explain in detail parallel-in/parallel-out switch with configuration and contents of control memory locations	07
	(b)		07
Q.3	(a)		07
	(b)	1. Busy Hour 2. Peak Busy Hour 3. BHCA 4. CCR An exchange serves 2000 subscribers. If the average BHCA is 10000	04
	(c)	and the CCR is 60%, calculate the busy hour calling rate. A group of 20 servers carry traffic of 10 erlags. 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.	03
Q.4	(a)	Explain in detail organization model of an OSI network management model.	07
	(b)	Draw and explain SNPMv2 system architecture	07

OR

Q.4	(a)	Explain in detail information model of an OSI network management model.	07
	(b)	Explain in detail command generator and command responder applications of SNMPv3 with diagrams.	07
Q.5	(a)	Enlist the basic tools used in network management. Explain any two of them in detail.	07
	(b)	State different event correlation techniques and explain any two of them in detail.	07
		OR	
Q.5	(a)	State and explain in detail different SNMP tools. Also explain in detail protocol analyzer.	07
	(b)	Explain in detail cryptography	07
