## **GUJARAT TECHNOLOGICAL UNIVERSITY**

M. E SEMESTER – II • EXAMINATION – WINTER • 2014 Subject code: 1720401 Date: 02-12-2014 Subject Name: Telecom Switching System, Networks			
Q.2	(a) (b)	What is Marcov chain? Discuss birth death process with the steady state equation. Explain in detail level 3 processing of distributed SPC. Also compare micro programmed hard wired control.  OR	07 07
	(b)	<ol> <li>Calculate the maximum access time that can be permitted to the data and control memories in a TSI switch with a single input and single output trunk multiplexing 2500 channels. Also, estimate the cost of the switch and compare it with that of a single stage space division switch.</li> <li>Calculate the access time of the memory module in parallel-in/serial-out time switch using 64 input and 64 output streams with each stream multiplexing 32 channels.</li> </ol>	04
Q.3	(a) (b)	Explain in detail LCC system with finite subscribers with derivation of blocking probability and GOS.  Explain TCP/IP based networks. Compare SNA, OSI and Internet protocol layer model in brief.	07 07
		OR	
Q.3	(a) (b)	Derive the probability equation for Erlang delay system or Erlang C formula. What are the challenges in managing the network? What is a goal of network management? List network management function.	07 07
Q.4	(a)	What are SNMP operations? Explain all in brief for SNMPv1, SNMPv2. Describe two techniques for instance object identification in SNMP.  Explain SNMP Architecture and Model in brief	07 07
	<b>(b)</b>	Explain SNMP Architecture and Model in brief.  OR	U/
Q.4	(a) (b)	Explain GetResponse, TRAP and variable bindings PDU in brief for SNMP. Explain SNMP community in brief. How MIB access policy different with SNMP Access Mode?	07 07
Q.5	(a) (b)	Explain in brief about SNMP message fields.  What is BER in SNMP? Explain BER structure in SNMP.	07 07

web based network management solution in brief.

RMON is related with SNMP.

What is RMON? Define RMON MIB, Consol, and Network Probes in brief. How

How many solutions are widely available for web based management? Explain the

Q.5

(a)

**(b)** 

**07** 

**07**