Seat No.:	Englment No
Seal NO.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

ME – SEMESTER – III (New)– EXAMINATION – WINTER-2019

Sul	bject	Code: 3730505 Date: 16-11-2019	
Sul	bject	Name: High Performance Networks	
Tir	ne: 0	2:30 PM TO 05:00 PM Total Marks: 70	
Inst	ructio		
	2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	What is meant by RSVP? Define and explain the different reservation styles in RSVP.	07
	(b)	Give the overview of IP telephony with the help of its architecture. Also differentiate between packet delay and packet jitter.	07
Q.2	(a) (b)	Discuss the labeling and label switched path of MPLS networks? Why scheduling and policing mechanism is required? Explain different scheduling mechanism with their advantage and disadvantage. OR	07 07
	(b)	Describe Network Performance Evaluation in traffic modeling.	07
Q.3	(a)	Differentiate between SIP and H.323 protocol. Explain H.323 signaling protocol in detail.	07
	(b)	Illustrate in detail about the working of overlay networks. OR	07
Q.3	(a) (b)	What do you mean by tunneling? Explain point to point tunneling protocol. What is Firewall? Explain the types of firewall in detail.	07 07
Q.4	(a)	Draw the RTP header format and explain the significance of each field. What are the difference between RTP and RTCP?	07
	(b)	Summarize the working of SNMP protocol. OR	07
Q.4	(a)	What is real time streaming protocol? Explain with the help of an RTSP session between a client and a sender.	07
	(b)	What is the Infrastructure required for Network Management? Explain with the help of an example.	07
Q.5	(a)	Explain integrated service model.	07
-	(b)	Explain Poisson modeling and its failure. OR	07
Q.5	(a) (b)	How do you access VPN? Explain Remote access and site to site VPN. Why do we require Network Security? Brief all the principles of Cryptography.	07 07