Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER-V • EXAMINATION – SUMMER • 2015
Subject Code: 2650010
Date: 11-05-2015

Ti	me: () tructio	Attempt all questions.	
	3.	Figures to the right indicate full marks.	
Q.1	(a) (b)	Explain classification of IPV4 addressing scheme with diagram. Write short note on ARP refinements and explain the significance of ARP cache with example.	07 07
Q.2	(a) (b)	Explain the IPV6 Base header format. Explain Next-Hop Forwarding and Default Forwarding in brief. OR	07 07
	(b)	Write a short note on direct and indirect delivery of IP datagram.	07
Q.3	(a)	Is ICMP Error correcting mechanism? Explain ICMP error reports regarding fragmentation.	07
	(b)	Explain IPV6 UDP pseudo-header format. OR	07
Q.3	(a) (b)	Explain feedback mechanisms SACK and ECN. Write a short note on VPN.	07 07
Q.4	(a) (b)	Explain TCP state machine with each state. Explain overlay networks in brief. OR	07 07
Q.4	(a) (b)	How DHCP differ from BOOTP? Explain DHCP address acquisition states. What is Real-Time Transport Protocol? Explain in detail.	07 07
Q.5	(a) (b)	Explain SNMP message format. What is firewall? Explain firewall implementation and packet filtering. OR	07 07
Q.5	(a) (b)	Explain SDN architecture and external controllers. Explain IPsec encapsulating security payload.	07 07
