Seat No.: _____

Enrolment No.____

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER- V EXAMINATION - WINTER - 2016

	•		Total Marks: 70	
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Q.1	(a) (b)	 Answer the following questions. Explain: IPv4 Loopback Address. What is the use of TTL field in IPv4 header? Explain: Window Advertisement. Explain: Supernet. The IP address specifies network connection and not an individual computer. (T/F). Justify. What is the default mask for class B? What is Active Open & Passive Open? Explain ARP protocol format. Also explain the ARP cache timeout & ARP refinements. 	07	
Q.2	(a) (b)	Explain three-way handshake for establishing a TCP connection. Draw the block diagram of UDP pseudo-header and explain checksum computation.	07 07	
	(b)	OR Explain Original class full Addressing scheme with example.	07	
Q.3	(a) (b)	What is the purpose of ping command? Draw and explain the message format of the ICMP message type that helps us execute ping. What is the need of IPv6? Compare IPv4 with IPv6. Explain General Form Of An IPv6 Datagram.	07 07	
		OR		
Q.3	(a) (b)	Explain TCP State Machine in detail Write Short Note on Virtual Private Network.	07 07	
Q.4	(a) (b)	Explain Explicit feedback mechanisms. What is TCP? Discuss TCP segment format. OR	07 07	
Q.4	(a) (b)	What is Network address Translation? Where it is used? Explain sliding window protocol with example.	07 07	
Q.5	(a) (b)	Explain firewall and types of firewall. List and explain the characteristics of HTTP.	07 07	
Q.5	(a) (b)	What is the use of IPsec? Explain IPsec Authentication Header. Write down short note on Simple Mail Transfer Protocol.	07 07	