Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER–V • EXAMINATION – WINTER 2013

Subject Code: 650010 **Date: 30-11-2013**

Subject Name: Advance Networking

Time: 02.30 pm - 05.00 pm **Total Marks: 70**

Instructions:

1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1	**(a)**	Explain Original class full Addressing scheme with example.	**07**
	(b)	Draw and explain ARP/RARP message format with header.	**07**
Q.2	**(a)**	How fragmentation is handled in IP? Which are the fields of IP datagram used for it?	**07**
	(b)	Write and explain IP forwarding algorithm.	**07**
		OR	
	(b)	Explain TTL and Internet datagram Options field.	**07**
Q.3	**(a)**	How testing Destination Reachability and status and source quench is handled in ICMP?	**07**
	(b)	Explain proxy ARP	**07**
		OR	
Q.3	**(a)**	Draw and explain Format of UDP message and UDP Pseudo-Header	**07**
	(b)	Explain the process of Establishment and termination of a TCP connection	**07**
Q.4	**(a)**	Explain sliding window protocol with example	**07**
	(b)	What is Network address Translation? Where it is used?	**07**
		OR	
Q.4	**(a)**	Explain Address acquisition states of DHCP	**07**
	(b)	Explain the process of Domain name resolution.	**07**
Q.5	**(a)**	Explain the FTP process model	**07**
	(b)	What is the use of IPsec? Explain IPsec Authentication Header.	**07**
		OR	
Q.5	**(a)**	Explain firewall and types of firewall	**07**
	(b)	Draw and explain IPv6 Base header format	**07**

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