

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**
