

**Mid. Sem. Test (Computer Networks-CS206)**

Max. Time: 01 hour

Max. Marks: 20

**Note:** Attempt all questions (each carry 2.5 marks)

1. Why class-full addressing scheme suffers from address depletion problem?
2. Given one class-less IP address 20.10.30.35 / 27. Find the range of IP Addresses and size of this block.
3. What is the role of HLEN field in IPv4 header? How it is represented?
4. A packet has arrived at the router with an D bit value of 1. What possible actions a router may take in such situation?
5. Define Dual Stack method for transition from IP4 to IPv6 system. When it is needed?
6. Why an ARP query packet is broadcasted not unicasted?
7. What is the role of source quench ICMP message?
8. A multicast address for a group is 231.24.60.9. What is its 48-bit Ethernet address for a LAN using TCP/IP?