VPMP POLYTECHNIC

Department of Computer Engineering

Advanced Computer Network (4350706)

Assignment-1

Q.1 Explain IPV4 Classful addressing in detail.
Q.2 Explain CIDR notation.
Q.3 Explain Network Address Resolution /Translation (NAT).
Q.4 Explain IP v4-Datagram Format (IPV4 Header).
Q.5 Explain ICMP v4 Messages (Types, Format).

Assignment-2

Q.1 Explain address space and address space allocation in IPv6.
Q.2 Explain auto configuration and renumbering in IPv6.
Q.3 Explain IPv6 Packet header Format.
Q.4 Explain Extension header.
Q.5 Explain the method of transition from IPv4 to IPv6.
Q.6 List out types of messages in ICMPv6 and explain any two of each.

Assignment-3

Q.1 Give difference between Intradomain routing & Interdomain routing.
Q.2 Explain following Routing Algorithm (i) Distance Vector Routing (ii)Link State Routing (iii) Path Vector Routing
Q.3 Explain RIP protocol. Also explains advantage & disadvantage.
Q.4 Explain OSPF protocol.
Q.5 Explain BGP protocol.

Assignment-4

Q.1 Explain different service provided by the Transport layer.
Q.2 Explain Port Number with example.
Q.3Explain UDP Header.
Q.4 Explain various Services of UDP protocol.

Q.5 Explain various TCP Services.
Q.6 Explain TCP Connections.
Q.7 Explain SCTP Services.
Q.8 Explain significance of the fields of SCTP packet format.

Assignment-5

Q.1 Explain WWW and URL.
Q.2 Explain HTTP.
Q.3 Explain working of FTP with diagram.
Q.4 Explain Following (i) SMTP (ii) MIME
Q.5 Give difference between POP3 & IMAP.
Q.6Explain working of DNS with diagram.