VPMP POLYTECHNIC

Department of Computer Engineering

Advanced Computer Network (4350706)

IMP Questions

- 1. Explain IPV4 Classful addressing in detail.
- 2. Explain CIDR notation.
- 3. Explain Network Address Resolution /Translation (NAT).
- 4. Explain IP v4-Datagram Format (IPV4 Header).
- 5. Explain ICMP v4 Messages (Types, Format) and ICMP v4 Debugging tools.
- 6. Any Subnetting Example Find the subnet mask, First address, Last address of given IP address.(Practical-01).
- 7. Compare IPv4 and IPv6.
- 8. Explain address space allocation of IPv6 address.
- 9. Explain auto configuration and renumbering. Also give benefits of it.
- 10.Explain significance of the fields of IPv6 Packet Format (Explain IPV6 header).
- 11. Give strategy of Transition from IPv4 to IPv6.
- 12.Differentiate intra and inter domain routing.
- 13. Explain RIP routing protocol. Also Compare RIP and OSPF.
- 14.Explain OSPF routing protocol.
- 15.Explain BGP (Border Gateway Protocol).
- 16.Explain following Routing Algorithms:
 - (i) Distance Vector Routing (ii) Link State Routing (iii) Path Vector Routing
- 17.Explain significance of the fields of UDP (Explain UDP Header).
- 18. Explain various UDP services and features. Explain various SCTP services.
- 19. Explain various TCP services. List out different features of TCP.
- 20.Explain significance of the fields of TCP Segment (Explain TCP Header).
- 21.Explain TCP connections (3-way handshaking).
- 22.Describe State Transition Diagram of TCP.
- 23. Explain significance of the fields of SCTP packet format (Explain SCTP Header).
- 24.Explain WWW and URL.
- 25.Explain HTTP. (Demonstrate the working of HTTP Protocol)
- 26.Explain the working of FTP Protocol./Explain FTP Protocol. Explain FTP connections.

27.Explain the architecture of Electronic mail./Email protocol/Email components.

28.Compare POP3 and IMAP4.

- 29.Describe MIME protocol.
- 30.Explain Domain Name System (DNS).[OR Explain DNS in the internet.]
- 31.Explain Name Resolution (Working of DNS).Also explain DNS message format.
- 32. Any one Header format example (like IPv4,TCP,UDP,SCTP protocol-for that refer manual practical-02,09).