Department of Information Technology

Computer Network(102080401)
Semester: VI
Division: 8b

Question Bank

Unit-1

Q. Explain & Draw Diagram of OSI Reference Model.

Q. List Difference between OSI and TCP/IP models.

Q. Definition of Internet and Protocol.

Q. Explain Circuit Switching and Packet Switching with example.

Q. Explain Delay, Loss and Throughput in Packet-Switched networks.

Q. Draw & Explain TCP/IP Model.

Q. What is topology? Explain star topology in brief.

Q. Explain following terms:

i. Processing Delay

ii. Transmission Delay

iii. Propagation Delay

iv. Queuing Delay

Q. Explain coaxial cable and fiber optic cables.

Q. Explain types of propagation.

Unit-2

Q. Explain block coding technique for error detection and correction.

Q. Explain Cyclic Redundancy Code(CRC).

Q. Write note on Stop-and-Wait protocol.

Q. what is difference between Error Correction and Detection? Explain any One Error Correction Technique with suitable example.

Q. Explain the service provided by the Link Layer.

Q. Explain Parity Checksum.

Unit-3

Q. Explain the usage of following devices.

1) Bridge 2) Repeater 3) Hub 4) Switch 5) Router 6) Gateway

Q. what is Aloha? Explain Variants of Aloha Protocol.

Q. Explain CSMA and CSMA/CD Protocols.

Q. what is Aloha? Explain Slotted Aloha.

Q. what is Ethernet? Explain Ethernet Frame Structure.

Q. Explain Limited Contention Protocol.

Q. Explain various types of Ethernet.

Unit-4

Q. Explain Structure of IPv4 Address.

Q. Explain Distance Vector Routing.

Q. Draw and explain IPV4 datagram format in Detail

Q. Explain MAC Address and IP Address.

Q. Explain Virtual Circuit Networks and Datagram Networks.

Q. Explain Link State Routing Algorithm.

Q. Difference between Broadcast and Multicast Routing.

Q. Explain congestion control in virtual circuit subnets.

Q. Explain Internetworking and Tunneling

Unit-5

Q. Compare UDP and TCP.

Q. Explain Multiplexing and De multiplexing.

Q. Explain Connection Less transport (UDP).

Q. Explain Connection Oriented Transport (TCP).

Q. Explain the TCP Segment structure and justify the importance of its field values.

Q. Explain UDP Segment Structure.

Q. Explain TCP Congestion Control.

Q. What is proxy server? What are the benefits of caching proxy server?

Q. What is congestion? Explain types of congestion in details.

Unit-6

Q. Give Architectural Overview of WWW.

Q. Explain the Domain Name System in brief.

Q. Explain the Basic function of the E-mail System.

Q. what is E-Mail? How it Works? Which Protocol is Uses?

Q. Explain Web and HTTP.

Q. Explain HTTP Message format.

Q. Explain File Transfer Protocol.

Q.0 Explain E-mail in Internet.

Q. Explain E-mail Message Format.

Q. What is HTTP? Differentiate its persistent and non-persistent types with request-response behavior of HTTP.

Q. Explain the concept of Cookies and its components with suitable example.

Q. Explain Socket Programming with UDP.

Q. Explain Socket Programming with TCP.