

Computer Networks

Unit-1:

1. a) Explain OSI reference Model.
b) Compare OSI reference model with TCP/IP reference model.
2. a) Explain TCP/IP reference Model.
b) Compare TCP/IP reference model with OSI reference model
3. a) Write a short note on ARPANET.
b) Differentiate LAN, WAN and MAN.
4. a) Explain Novell Netware reference model.
b) Write a short note on different network topologies?

Unit-2:

1. What is switching explain different types of switchings in detail
2. Explain about transmission media.
3. a) Explain ATM reference Model.
b) Compare N-ISDN and B-ISDN
4. a) Differentiate Data gram packet and Virtual Circuit Switching.
b) Write a short note on wired media?

Unit-3:

1. a) List the Design issues of the data link Layer
b) Send the Word "ECE Dept" by applying Bit stuffing framing technique and verify at destination
2. a) Write a short note on ALOHA?
b) Explain about sliding window protocol in detail.
3. a) List various Elementary Data link layer Protocols
b) Explain sliding window, Go back N and Selective repeat protocols briefly
4. a) Explain CSMA/CD protocol.
b) List various error control mechanisms.

Unit-4:

1. Explain about internetworking in detail.
2. Explain about broadcast, multicast routing in detail.
3. Differentiate in between VC and SC subnets also explain about flooding
4. Explain about hiererchial routing and shortest path routing.

Unit-5:

1. Explain about the UDP protocol in detail.
2. Explain about Connection establishment
3. Explain about connection release in Transport layer.
4. Explain about TCP Protocol in detail

Unit-6:

1. Discuss about POP3 and IMAP in detail.
2. Explain about Digital Signatures in detail.
3. Explain about DNS system
4. Explain about image compression with an example.