

Term work Assignments

- 1) Explain different Network Topologies with diagram and compare.
- 2) What are different categories of networks.
- 3) What are different modes and types of data transmission.
- 4) Explain OSI model with the functions all the layers.
- 5) Explain stop and wait protocol flow control and error control protocol at data link layer.
- 6) Write a short note on HDLC and its operation.
- 7) Differentiate Circuit switching, Packet Switching and Message Switching.
- 8) Explain different routing protocols.
- 9) Different IP addressing schemes. What are special IP addresses.
- 10) Explain TCP Segment Header with suitable diagram.
- 11) Explain the functions of Repeater, hub, switches, routers, bridges.
- 12) Write a short note on DNS.
- 13) Write a short note on SNMP.
- 14) Write a short note on encryption and decryption techniques.
- 15) Explain the term Distributed Computing. What are its different models and its advantages and disadvantages.

Tutorial Assignments.

- 1) Explain the terms layer, service, peer, protocol, interface with respect to OSI Model.
- 2) Explain Sliding window protocol (Go-Back-N and Selective Repeat).
- 3) Explain CRC and Error detection using CRC.
- 4) Write a short note on digital signature.
- 5) Differentiate between distributed O.S. and Centralised O.S,

Practical Assignment

Prepare a 15-20 pages report for a network that is implemented in a institute laboratory with network diagram. Explain the consideration points for the expansion of the network.