

UNIT-1

1. Explain OSI reference model in detail.
2. Compare OSI reference model with TCP/IP reference model.
3. What are the different types of networks?
4. Explain about Network topologies with neat diagram.
5. What is guided media? Explain different types of guided media.
6. What is unguided media? Explain different types of unguided media.

UNIT-II

1. Discuss how data link layer provides flow control and error control.
2. Prepare about CRC, Checksum & Parity Check.
3. Discuss different sliding window protocols of data link layer.
4. What are the responsibilities of data link layer? Describe the issues in data link layer
5. Describe the selective repeat & stop and wait sliding window protocols.
6. Explain in detail about HDLC & PPP.

UNIT-III

1. Discuss different controlled access protocols.
2. Enumerate the concept of ALOHA in detail?
3. Explain Ethernet architecture type of Ethernet in detail.
4. What is CSMA? List the protocols used with CSMA.
5. Explain the concept of Token passing for controlled access.
6. Explain the functioning of wireless LAN in detail.
7. What is channelization? What are the different techniques? Explain the importance.

UNIT-IV

1. Discuss network layer design issues.
2. Prepare about all routing algorithm with a suitable example.
3. Explain the concept of Leaky bucket algorithm.
4. Explain IPV4 and IPV6 header format.
5. Explain about Class full Addressing.
6. Explain the following: i) Tunnelling ii) Fragmentation

UNIT-V

1. Discuss about services provide by the Transport layer.
2. Discuss how TCP provide flow and Error control.
3. Discuss how UDP provide flow and Error control
4. Difference between TCP & UDP Protocols.
5. Discuss HTTP protocol in detail.
6. Explain about TELENET Difference between Local Vs Remote.
7. What is DNS? Discuss DNS in internet.
8. With neat architecture, explain TCP in detail.
9. Explain the message transfer using Simple Mail Transfer Protocol