

Subject : Local Area Network

Code: ETME 212

LAN Assignment-1

Q1. Explain OSI Model in detail with all the layer functionalities.

Q2. What is Internet? Explain different Network Topologies.

Q3. What is a repeater? Explain which network device is used in Star Topology.

Q4. Write short notes on the following:

- a. Bluetooth
- b. Wi-Fi
- c. LAN

LAN Assignment-2

Q1. Explain different MAC layer Protocols in detail.

Q2. What is DLL. Explain Framing and error detection process of DLL.

Q3. Write short notes on the sliding windows protocol.

Q4. Write short notes on :

- a. Bit Stuffing
- b. Character Stuffing

LAN Assignment-3

Q1. What is an IP Address ? Explain IPv4 & IPv6 with the difference b/w/ them.

Q2. What is Router ? Explain in detail.

Q3. What is Virtual LAN ? Explain its working.

Q4. Explain WLAN in detail.

LAN Assignment-4

Q1. Write short notes on :

- a. NIC
- b. Routers
- c. Bridge

Q2. Explain Token Bus & Token Ring in detail.

Q3. What is an ISP ? Explain Dial up connection, Broadband DSL, Cable Modem and satellite in detail.

Q4. Write short notes on :

- a. DNS
- b. HTTP
- c. FTP
- d. Telnet