ASSIGNMENT 2- COMPUTER NETWORKS(For T3 and T10)

1. Differentiate between static and dynamic channel allocation.
2. What are the two sub layers of Data link layer called?
3. Why CSMA/CD cannot be used in wireless Networks?
4. What is the minimum data size of an Ethernet frame?
5. Explain Distance Vector Routing. What are its limitations and how are they overcome?
6. Explain 1- persistent, p- persistent and non -persistent CSMA.
7. Explain the function of Hub, Switch and Bridge.
8. Write short notes on any four of the following.
   - Token Ring
   - Difference between congestion control and QoS (Quality of Service)
   - FDDI
   - Traffic shaping using Token Bucket Algorithm.
   - CSMA/CD
9. Compare and contrast the differences between 802.3, 802.4, 802.5 Protocols? What is the drawback of using Token Ring Protocol and how can it be rectified?
10. What are the advantages of FDDI over a basic Token Ring?
11. Compare the data rate for traditional Ethernet. Fast Ethernet and gigabit Ethernet.
12. Justify the statement “Slotted ALOHA achieves double efficiency than pure ALOHA”.