**Module 2**

1. List out the situations in which pure ALOHA and slotted ALOHA performs better. Justify your answer.
2. Compare the throughput of pure aloha and slotted aloha.
3. Explain the Network layer in the internet.
4. Write about CSMA and CSMA/CD in detail.
5. What are the reasons for congestion? What are the problems with congestion?
6. What is CSMA with CD? What are the three different states a CSMA/CD can be in? Explain with a neat diagram.
7. What is Carrier Sense Multiple Access? What are the different approaches?
8. Describe the working principle of Carrier sense multiple access with collision Detection (CSMA/CD).
9. Explain the Medium Access Control sublayer of the data link Layer.

**Assignment 2**

1. Explain the design issues of the data link layer.
2. Explain Sliding Window protocols selective repeat
3. List the advantage of fiber optics as a communication medium.
4. Differentiate between. Connection-oriented and connectionless services.
5. The received string of bits is 110011001100. Is it acceptable? If so, what is the data bit sequence? Consider the divisor is 10101
6. What are the functions of the data link layer?
7. Explain the different transmission media in networking.
8. Explain Framing in the Data link layer.
9. Justify that the Go-Back -N Protocol is good for network Communications
10. Explain the difference between Stop and wait and sliding window protocol repeat technique
11. Explain CRC with an Example