

What is ARPANET?
What is the difference between packet and frame?
What is a topology?
What is parity bit?
Define piggybacking.
What is sliding window protocol?
What is checksum?
Expand ARQ.
Define routing table.
What is Datagram?
Define computer network.
What is protocol?
Define burst error
What is the minimum Hamming distance required to detect 2 errors?
Define overhead in collision-free protocols.
Why is Selective Repeat more efficient than Go-Back-N?
Define MAC
What is a token in token passing protocol?
Define Routing?
Define virtual circuits?

Explain the OSI reference model with neat diagram.
Discuss different types of transmission media with examples.
Explain CRC method of error detection with example.
Evaluate efficiency of ALOHA system using throughput formula.
Explain the design issues of the network layer.
Explain distance vector routing algorithm with an example.

Draw the neat sketch of TCP/IP reference model? Describe the functionalities of every layer in detail?

Assume the following 8-bit data unit is to be transmitted: 10110010. Calculate the 4-bit checksum using one's complement arithmetic and demonstrate the error detection at the receiver if the received data unit is 10111010

What is CSMA Protocol? Explain how it detects collision?

Explain about go-back-n automatic repeat request?

Discuss the Optimality Principle

Explain in detail the services offered by the Network Layer?