Q1. Explain the following keywords with example: Socket, Port Number, IP Datagram, Packet, Segmentation, Reassembly, Switches, Bridges, Routers, packet forwarding, routing.

OR
Why it is necessary to design a network system (NS)? What must be the contents of a NS that needs designing? What are the factors that must be remembered while designing a NS?

Q2. Describe IPV4 and TCP header.

Q3. What are various packet processing functions, Name any five and define them?

Q4. Classify various generations of Network Systems?

Q5. Explain MicroEngine Programming in breifly.

Q6. Describe and Differentiate
   a. Ingress and Egress Processing.
   b. MIMD and SPMD models

Q7. What are distributed objects and how these are implemented in distributed systems?