

Note: All questions are compulsory Question 1 has an internal choice. Write answers precisely.

- Q1.** Explain the following keywords with example: Socket, Port Number, IP Datagram, Packet, Segmentation, Reassembly, Switches, Bridges, Routers, packet forwarding, routing,
(8)

OR

Describe importance and requirements of a Network system? What factors decide overall design of a NS?

(8)

- Q2.** Describe IPV4 and TCP header.
(3)
- Q3.** What are various packet processing functions, Name any five and define them?
(5)
- Q4.** Classify various generations of Network Systems?
(4)

Note: All questions are compulsory Question 1 has an internal choice. Write answers precisely.

- Q5.** Explain MicroEngine Programming in briefly.
(4)
- Q6.** Describe and Differentiate
(8)
- a. Ingress and Egress Processing.
 - b. MIMD and SPMD models
- Q7.** What are distributed objects and how these are implemented in distributed systems?
(5)
- Q8.** Draw of architecture of Intel Network Processor.
(3)
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Note: All questions are compulsory Question 1 has an internal choice. Write answers precisely.

- Q1.** Explain the following keywords with example: Socket, Port Number, IP Datagram, Packet, Segmentation, Reassembly, Switches, Bridges, Routers, packet forwarding, routing,
(8)

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?
(8)

- Q2.** Describe briefly the TCP splicing algorithm with example.
(3)
- Q3.** What are various packet processing functions, Name any five and define them?
(5)
- Q4.** Differentiate between various generations of Network Systems?
(4)