

Q.P. Code: 27200

[03 Hour]



[Total Marks: 80]

N.B.

- i) Question No.1 is compulsory.
- ii) Attempt any three from the remaining questions.

Q1. Attempt the following:

[20]

- a) What are the performance parameters of computer network?
- b) List the features of WLAN.
- c) Explain the concept of connectionless and Connection oriented protocol with example.
- d) How MPLS is different from traditional routing

Q2.

- a) Compare between bridge and router. [6]
- b) Draw and explain field of IPv4 datagram. [8]
- c) Derive the expression of efficiency of ALOHA. [6]

Q3.

- a) Different between FDM and TDM. [4]
- b) Explain in detail the physical media used for computer communication. [8]
- c) Classify multiple-access protocols and explain the CSMA/CD [8]

Q4.

- a) Classify unicast routing protocol and explain the working principle of RIP. [8]
- b) How link state routing is advantageous than distance vector routing. [6]
- c) Discuss the working Principle of HFC [6]

Q5.

- a) What do you mean by socket? Explain Network Socket Programming. [7]
- b) How UDP is different from TCP for data transmission? [7]
- c) What is the role of SMTP in application layer? [6]

Q6. Write a short notes on:

[20]

- a) TCP/IP Overview
- b) Network topologies
- c) Congestion Control