

24

QP Code : 31134

(3 Hours)

Total marks : 80

Note:

- Question No. 1 is compulsory.
- Attempt any Three questions out of remaining questions.
- Make suitable assumptions whenever necessary.

Q 1: [4 X 5]

a) Compare connection oriented and connectionless services.
 b) Explain in short Subnetting.
 c) Explain in short different framing Methods.
 d) Explain in short TCP/IP Model.
 e) What is the use of SSH ?

Q 2: [10]

a) Explain any four functions of Data Link layer with example.
 b) What is IPv4 protocol? Explain the IPv4 Header format with diagram. [10]

Q 3: [10]

a) Explain Classless Inter Domain Routing (CIDR). [10]
 b) Discuss the quality of service parameters in computer network. [10]

Q 4: [10]

a) What are the steps involved in link state routing. Explain the contents and requirements of link state packets. [10]
 b) Compare Open Loop congestion control, Closed Loop congestion control. [10]

Q 5: [10]

a) Write a Program for client-server application using Socket Programming(TCP). [10]
 b) An ISP is granted a block of addresses starting with 150.80.0.0/16. The ISP wants to distribute these blocks to 2600 customers as follows.
 a. The first group has 200 medium-size businesses; each needs 128
 b. The second group has 400 small businesses; each needs 16
 c. The third group has 2000 households; each needs 4 addresses. Design the subblocks and give the slash notation for each subblock. Find out how many addresses are still available after these allocations. [10]

Q 6: Write short notes on the following. [5 X 4]

a) Virtual LAN
 b) FDDI
 c) BGP
 d) SNMP

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