

ASSIGNMENT 2- LAN and Networking(For S7)

Q-1 . In a class B subnet, we know the IP address of one of the hosts and the mask as given below:

IP Address: 125.134.112.66

Mask: 255.255.224.0

What is the Subnet address?

Q-2 .A Company is granted a site address of 195.70.52.0 The company needs 6 subnets. Design the subnet? What are the maximum hosts and the hosts per subnet that can be attached?

Q-3. Write short notes on the following:

- a) Token Bus
- b) Token Ring
- c) Wireless LAN
- d) Encryption Techniques
- e) Security aspects of network
- f) Data Compression

Q-4 .What is loop back address? Give an example.

Q-5. What are the two sub layers of Data link layer called?

Q-6. What is the minimum data size of an Ethernet frame?

Q-7. Explain Distance Vector Routing. What are its limitations and how are they overcome?

Q-8. Explain the function of Hub, Switch and Bridge.

Q-9. Compare and contrast the differences between 802.3, 802.4, 802.5 Protocols? What is the drawback of using Token Ring Protocol and how can it be rectified?

Q-10. Compare the data rate for traditional Ethernet, Fast Ethernet and gigabit Ethernet.