

- 4 a. What are Hidden and Exposed Station Problems in wireless LANS? Give solution for each. (10 Marks)
- b. Give the format for IEEE 802.3 Frame format. What are the minimum and Max. Frame length? (08 Marks)
- c. Identify if the following 802.3 MAC Addresses are Unicast, Multicast or Broadcast. (02 Marks)
- i) 4A : 30 : 10 : 21 : 10 : 1A ii) 47 : 20 : 1B : 2E : 08 : E6

PART - B

- 5 a. Explain three criteria of Transparent bridge in detail with relevant diagrams. (10 Marks)
- b. A system with Four LANS and Five bridges is shown in fig. Q5(b). Choose B1 as the root bridge. Show the Forwarding and Blocking Ports after applying the spanning tree procedure. (10 Marks)

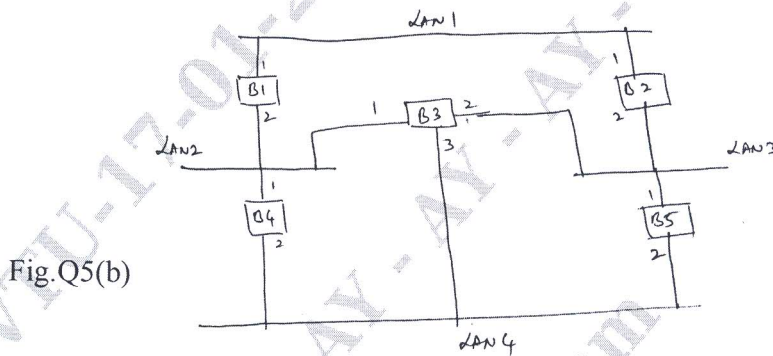


Fig. Q5(b)

- 6 a. Explain IPV₄ Header Format. (08 Marks)
- b. Explain briefly strategies used to handle the transition from IPV₄ to IPV₆. (06 Marks)
- c. Explain classful addressing and what are the Problems in classful addressing. (06 Marks)
- 7 a. Explain distance vector routing for the following example as shown in fig. Q7(a). (10 Marks)

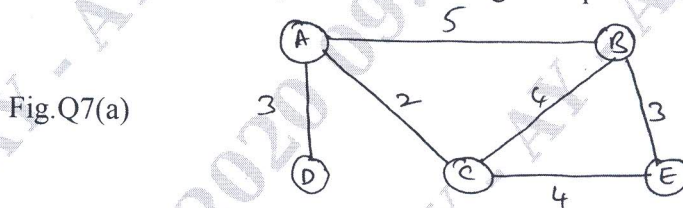


Fig. Q7(a)

- b. Compare Multicasting with Multiple Unicasting. Differentiate between source based tree and group shared tree approach used in Multicast routing. (10 Marks)
- 8 a. Describe a TCP connection and explain TCP connection establishment using three way handshaking. (10 Marks)
- b. Explain Recursive resolution and Iterative resolution in name address resolution. (10 Marks)
