Computer Networks
2ⁿᵈ Year, 1ˢᵗ Semester

Tutorial 7 - VLAN

1. If six computers are connected by a switch, how many collision domains and broadcast domain are there?

2. If a switch has 12 ports and 10 of them are in VLAN 12, VLAN 13 and VLAN 14, how many broadcast domains are there?

3. Following the previous question, draw how 10 computers are connected to the 10 switch ports. Give them proper IP addresses.

4. Fix a router to enable inter VLAN communication using one router interface. Show how you assign gateways for each VLAN using sub interfaces.

5. According to the diagram drawn in question 2, write down the switch commands to assign those ports to relevant VLANs. (One example for each VLAN is adequate)

6. What do you understand by trunk port and access port?