Assignment-5

COMPUTER NETWORK LAB (CSPC-227)

NIT Jalandhar Solve all the questions

Create a scenario in which five different groups (CSE, ME, ECE, EEE and CE) of different network are directly connected through intermediate devices. Each group having 2/3 end systems. Given scenario is having atleast 4 different LAN. (USE minimum 4 hub, 2 switch and 3 router). Do the following for the given scenario.

- 1. Provide the Static IP Address to every end device available in the network.
- 2. Label each and every device in the network.
- 3. Label each and every interface with their IP Address.
- 4. Show the Intra-LAN and inter-LAN communication
- 5. Analyze the layer wise communication between the devices.
- 6. Topology used in CSE is STAR
- 7. Topology used in ECE and ME is Bus
- 8. Also explain the overall topology of network.
- 9. Discuss the concept of gateway and provide by default first address as a gateway address.
- 10. Show data transmission between CSE and ME
- 11. Show data transmission between ECE and EEE
- 12. Use static routing between the routers
- 13. Demonstrate the RIP routing

Note: Number of IP Address required by each group is (CSE-120, ME- 60, EEE- 68, CE-23). Apply sub netting (FLSM, VLSM). IP address allocated by the ISP is 150.10.11.0/26
End