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**BS(CS)-4B**

Q1: **Building and Testing VLAN**

**Tasks:**

**Introduction (devices Connectivity, IP Assigning,)**

I have connected the devices and using following ports given in the figure above. Now IP assigning:

Similarly, assigning the IPs of PC1 (192.168.1.30), PC2 (192.168.1.31), PC3 (192.168.1.32), PC4 (192.168.1.33), PC5 (192.168.1.34) respectively.

Now we will make different VLAN:

* First, naming the VLANs
* Then, allotting the fastEthernet ports to different VLANs
* Allotting port 0/1 and 0/2 to VLAN 10 that is student.
  + Allotting port 0/3 and 0/4 to VLAN 20 that is management.
  + Allotting port 0/5 and 0/6 to VLAN 30 that is faculty.
  + Now using the command “show vlan”, to display the VLANs

## Connection Testing

* + Testing the connection within same VLAN, PC0 and PC1 both belongs to VLAN 10.

## Packet Simulation(Same VLAN and Different VLAN)

Packet simulation within the same VLAN that is VLAN 10 using PC0 and PC1 to transmit packets.

## Connection Testing Between same VLAN

* Testing the connection within same VLAN, PC0 and PC1 both belongs to VLAN 10.

## Connection Testing Between Different VLAN

* Testing the connection between different VLAN, PC2 (belongs to VLAN 20) and PC5 (belongs to VLAN 30)

## ANSWER:

Diagram

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