

**Switch**

1. Administrative Function
2. VLANs
3. Inter-VLAN routing

**Router**

1. Different Configuration modes
2. Advanced configurations
3. Administrative Functions.
4. Routing and procedure to setup static routes
5. Routing and procedure to setup RIP on routers
6. Routing and procedure to setup OSPF on routers.

You will be tasked with setting up a small network using Packet Tracer. For VLAN question may be like “The network consists of four computers (PC1, PC2, PC3, and PC4) and a switch (Switch1). You need to configure VLANs to segregate the network traffic.”

Requirements:

PC1 and PC2 should be in VLAN 10.

PC3 and PC4 should be in VLAN 20.

Configure two VLANs on Switch1.

Assign the appropriate ports on Switch1 to the respective VLANs.

Verify connectivity between the PCs within the same VLAN.