

Ex - 11b)

Date: 9/10/24

## Routing Information Protocol.

AIM:

To simulate RIP using Cisco Packet Tracer.

### PROCEDURE:

1) Create network using 3 PCs & 4 routers as shown in image.

2) Assign IP address for the PCs & router ports.

PC0 : IP - 10.1.1.1

Gateway - 10.1.1.2

PC1 : IP - 200.1.1.1

Gateway - 200.1.1.2

PC2 : IP - 222.2.2.2

Gateway - 222.2.2.12

Router 3 - gig 0/0 - 20.1.1.1

o/1 - 192.168.1.1

o/2 - 10.1.1.1

Router 2 - gig 0/0 - 20.1.1.2

o/1 - 172.1.1.1

o/2 - 200.1.1.2



Router 1 - gig 0/0 - 192.168.1.3  
0/1 - 172.1.1.2  
0/2 - 217.1.1.1

Router 4 - gig 0/0 - 217.1.1.2  
0/1 - 222.2.2.12

3) Click on router 3

→ Click confg → RIP

→ Enter Network 10.0.0.0 → Add

→ Enter Network 20.0.0.0 → Add

→ Enter Network 192.168.1.0 → Add

This step is done in order to add the neighboring network address for router 3.

4) Do same for Router 2, 1, & 4.

Router 2 → confg → RIP

→ 20.0.0.0 - add

→ 172.1.0.0 - add

→ 200.1.1.0 - add

Router 1 → confg → RIP

→ 172.1.0.0 - add

→ 192.168.1.0 - add

→ 217.1.1.0 - add

Router 4 → confg → RIP

→ 217.1.1.0 - add

→ 222.2.2.0 - add



5) Now to display the routing table click on router (say router 1)  
→ Then on cli & type the command  
#exit  
# exit  
# show ip route.

#### OUTPUT

R. 10.0.0.0/8 via 192.168.1.1 gig0/0

R. 20.0.0.0/8 via 192.168.1.1 gig0/0

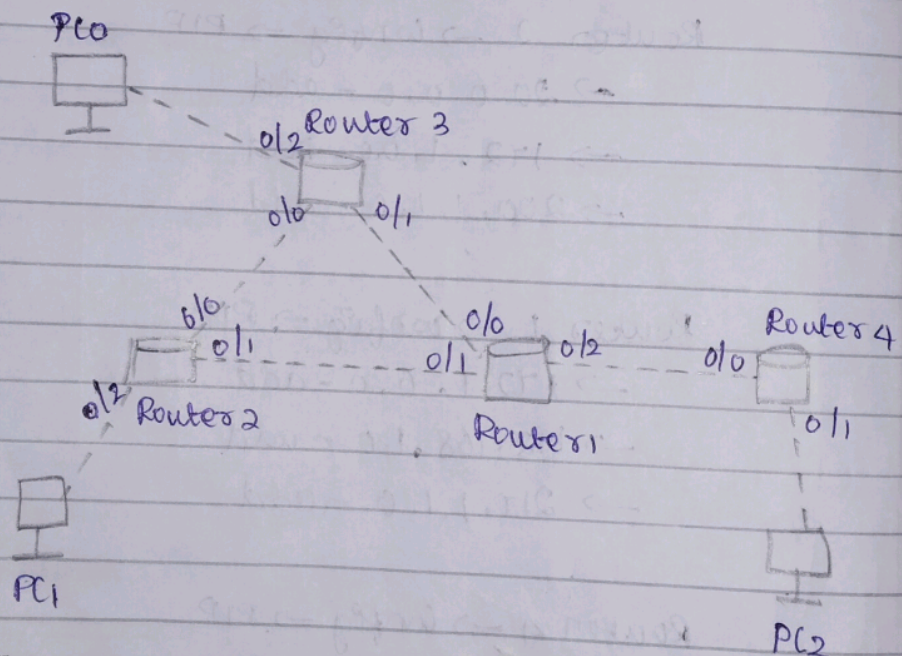
0. 172.1.0.0/16 is variably connected

2 subnet 2 mask

C. 172.1.0.0/16 is directly connected gig0/1

L. 172.1.1.2/32 is directly connected gig0/1

#### DIAGRAMATIC REPRESENTATION.



#### RESULT

Thus RIP is simulated using Eisco Packet tracer successfully.