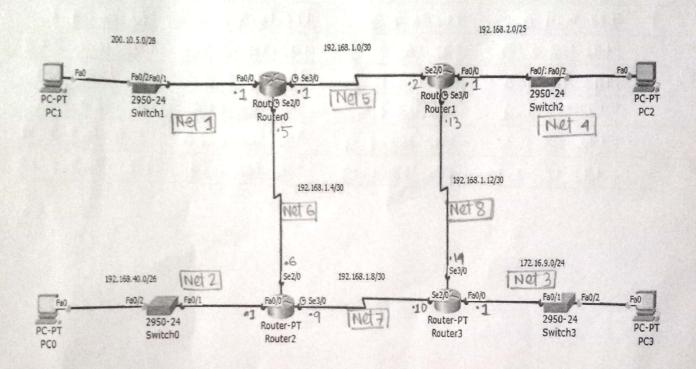
Assignment-1 (Set-A)

Static/Dynamic Routing Using Packet Tracer

Instructions:

1. Configure the following topology using Dynamic Routing (RIP).

2. Test your connection to see, if all the subnets can transfer packets among them.



Task 1: Addressing Table

Device	Interface	IP address	Subnet Mask
Router0	Fa 0/0	200.10.5.1	255.255.255.240
	Serial 2/0	192.168.1.5	253.255.255.252
	Serial 3/0	192 168 . 1 . 1	255.253.255.252
Router1	Fa 0/0	192.168.2.1	255.255.253.128
	Serial 2/0	192.168.1.2	255.255.255.252
	Serial 3/0	192.168.1.13	255.255.255.252
Router2	Fa 0/0	192.168.40.1	255 255.255.192
	Serial 2/0	192.168.2.6	255.255.255.252
	Serial 3/0	192.168.1.9	255.255.255.252

Router3	Fa 0/0	172.16.9.1	255.255.255.0
	Serial 2/0	192.168.1.10	253.255.255.252
	Serial 3/0	192.168.1.14	255.255.255.252

Task 2: Subnet Information

Subnet Number	Subnet Address	First Usable Host Address	Last Usable Host Address	Gateway Address
1	200.10.5.0	200.10.5 1	200.10.5.14	200.10.5.1
2	192.168.40.0	192.168.40.1	192.168.40.62	192.168.40.1
3	172.16.9.0	172.16.9. 1	172.16.9.254	172.16.9.1
4	192.168.2.0	192.168.2.1	192.168.2.126	192.168.2.1
5	192 168 1 0	192.168.1.1	192.168.1.2	192 168 . 1 . 1
6	192 168 1 4	192.168.1.5	192.168.1.6	192-168-1-5
7	192.168.1.8	192.168.1.9	192.168.1.10	192-168-1-9
8	192.168.1.12	192-168-1-13	192.168.1.14	192 168.1.13

Addross Assignment

Rowter O

Routers enable Router II configure terminal Router (confid) It hostname RO RO (confid) # interface Fago RO (config-if) # no shutdown PO (config-if) I ip address 200.10.5.1 255.253.255.240 RO (config-if) to exit RO(config) It interface se 2/0 RO (confid-if) H no shatdown Ro (amfig- if) # ip address 192.168.1.5 255.255.255.252 RO(config-if) It exit RO(confis) # interface se 3/0 RO (config-if) # no shutdown RO(config-if) # ip address 192.168.1.1 253.255.255.252 po (ampio- it) Il exit

Po(confis) It exit

PO H WI

RO I exit

RO> exit

Powder 1

Powder H conft

Powder H conft

Powder (confis) H hostname R1

P1 (confis) H interface se 2/0

P1 (confis-if) H no shutdown

ip address 192.168.1.2 255.255.255.252

Hexit

P1 (contis) # interface se 3/0

PI (config-if) H no shutdown

ip address 192.168.1.13 255.255.255.252 # exit

PI (contis) # interface Fao/o

PI (conficit) # no shutdown

ip address 192.168.2.1 255.255.255.128

oxit

P1 (config) Heyit

Router 2

Pouter H conft

Pouter (confis) H normanne p2

P2 (confis) H interface Fa oro

```
(11)
```

R2 (emplo-if) It no shuddown Hip address 192:168:46.1 255.255.255.142 # exit

P2 (confid) Hingerface Se 210

P2(config-if) H no shutdown

ipaddross 192 168.1.6 255.255 255 257 # exit

P2 (confid) # interface se 3/0

02 (config-if) H no shutdown

ip address 192 168.1.9 255 255 255 255.252 # exit

22 (confid) Hexit

P2 H W

Rowter 3

Router > on ponter # cont t Router (confis) # hortname R3 P3 (confis) # interface se 2/0 P3 (configif) # no shutdown # ip address 192.168.1.10 255.255.255.255.254 # exit

P3 (eontis) # interface Se3/0 P3 (config-if) # no shutdown # ip addr 192.168.1.19 255.255.255.252 H exit

23 (confid # interface Fac/o # no shutdown # ip address 172.16.9.1 255.255.255.0

Psyconfid theyit R3 HWT

(II)

Ponter 0

po(amfis) # 1p ducp pool Net 1

po(ducp-confis) # network 200.10.5.0 255.255.255.240

default-router 200.10.5.1

dus-sorver 8.8.8.8

exit

Pr(confis) # exit

Router 1

PO H WE

P1 (amfis) # ip duep pool Not 4
P1 (duep-confis) # network 192.163.2.0 255.255.255.128
default-router 192.168.2.1
dus-server 8.8.8
exit

PI (confis) Hexit

Powter 2

P2 (contis) # ip dhop pool Net 2

P2 (dhop-contis) # network 19218840.0 255.255.255.192

default-router 192.168.40.1

dns-server 8.8.8.8

P2 (contis) # exit

R3(confis) # ip drop pool Net3

R3(drop-confis) # network 172.16.9.0 253.255.255.0

default-router 172.16.9.1

drs-server 8888

exit

P3 H Wr

PIP Configuration

Router o

PO(contio) # router tip
PO(contio-router) # version 2

network 200.10.5.0

network 192.168.1.4

network 192.168.1.0

exit

PO(confis) # exit

Power 1

PI (config) # rowter rip

PI (config-rowter) # version 2

network 192.168.1.0

network 192.168.1.12

network 192.168.2.0

PI (config) # exit

PI (config) # exit

Router 2

P2 (config touter rip P2 (config-router) # vursion 2

network 192.168.40.0

network 192.168.1.4

network 192.168.1.8

exit

PIH WT

P3 (confid # router rip P3 (confid-router) # version 2

H network 192.168.1.8

network 192.168.1.12

H notnork 172, 16, 9,0

exit

P3(confis) # exit

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