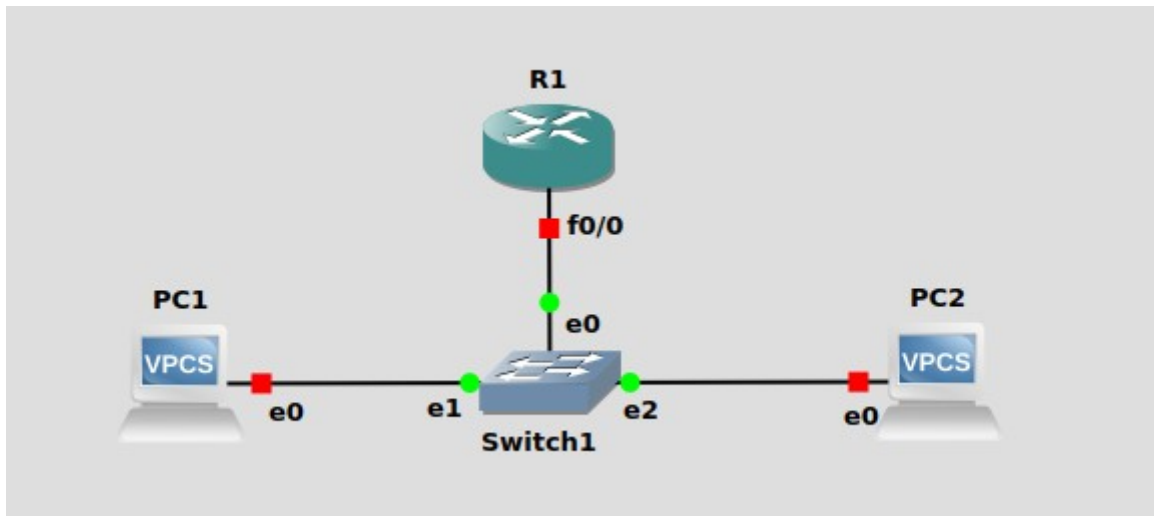NAME: PRERNA MITTAL
SECTION: CSE-D
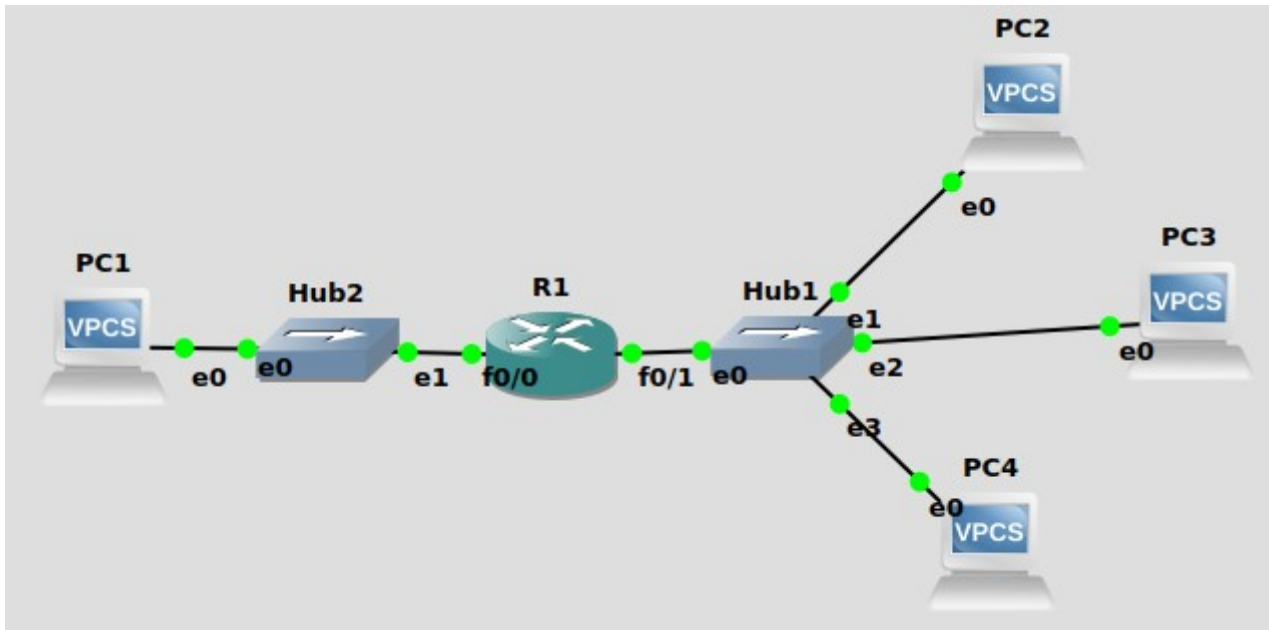
QUESTION-1
GNS3 DIAGRAM

R1 CONFIG

```
R1#config t
Enter configuration commands, one per line.  End with CNTL/Z.
R1(config)#ip dhcp pool NAME
R1(dhcp-config)#network 192.168.3.0 255.255.255.0
R1(dhcp-config)#default-router 192.168.3.1
R1(dhcp-config)#interface f0/0
R1(config-if)#no shutdown
R1(config-if)#ip addre
*Mar  1 00:02:06.615: %LINK-3-UPDOWN: Interface FastEthernet0/0, changed state to up
*Mar  1 00:02:07.615: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
R1(config-if)#ip address 192.168.3.1 255.255.255.0
```

PC1 PC2 DHCP

```
                                         DORA IP 192.168.3.2/24 GW 192.168.3.1
PC2> dhcp
DDORA IP 192.168.3.3/24 GW 192.168.3.1 PC1> dhcp
                                         DORA IP 192.168.3.2/24 GW 192.168.3.1
```

QUESTION-2
GNS3 DIAGRAM

PC CONFIGS

```
PC1> ip 10.0.1.10 255.255.255.0 10.0.1.12
Checking for duplicate address...
PC1 : 10.0.1.10 255.255.255.0 gateway 10.0.1.12
```

```
PC2> ip 10.0.2.10 255.255.255.0 10.0.2.12
Checking for duplicate address...
PC2 : 10.0.2.10 255.255.255.0 gateway 10.0.2.12
```

```
PC3> ip 10.0.2.137 255.255.255.248 10.0.2.138
Checking for duplicate address...
PC3 : 10.0.2.137 255.255.255.248 gateway 10.0.2.138
```

```
PC4> ip 10.0.2.139 255.255.255.0 10.0.2.142
Checking for duplicate address...
PC4 : 10.0.2.139 255.255.255.0 gateway 10.0.2.142
```

ROUTER CONFIG

```
R1#config t
Enter configuration commands, one per line.  End with CNTL/Z.
R1(config)#inter f0/0
R1(config-if)#ip address 10.0.1.1 255.255.255.0
R1(config-if)#no shutdown
R1(config-if)#exit
R1(config)#
*Mar  1 00:14:57.903: %LINK-3-UPDOWN: Interface FastEthernet0/0, changed state to up
*Mar  1 00:14:58.903: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
R1(config)#inter f0/1
R1(config-if)#ip address 10.0.2.138 255.255.255.0
R1(config-if)#no shutdown
R1(config-if)#exit
R1(config)#
*Mar  1 00:16:01.371: %LINK-3-UPDOWN: Interface FastEthernet0/1, changed state to up
*Mar  1 00:16:02.371: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
R1(config)#
```