

**CSE 324 Lab Final Practice Exam Solution**

## Step 1: Configure DHCP in Guest Network

```
=====
R3(config)#ip dhcp pool R3G0/0
R3(dhcp-config)#net 192.168.4.0 255.255.255.0
R3(dhcp-config)#default-router 192.168.4.1
R3(dhcp-config)#dns-server 192.168.1.12
R3(dhcp-config)#exit
```

```
R3(config)#ip dhcp excluded-address 192.168.4.1 192.168.4.252
```

## Step 2: Configure Routing Protocols (Static, Default, and RIP)

```
=====
R1(config)#ip route 0.0.0.0 0.0.0.0 11.10.100.1
```

```
ISP(config)#ip route 209.165.200.240 255.255.255.248 11.10.100.2
```

```
R1(config)#router rip
R1(config-router)#net 192.168.100.0
R1(config-router)#net 192.168.101.0
R1(config-router)#default-information originate
R1(config-router)#exit
```

```
R2(config)#router rip
R2(config-router)#net 192.168.1.0
R2(config-router)#net 192.168.101.0
R2(config-router)#net 192.168.103.0
R2(config-router)#exit
```

```
R3(config)#router rip
R3(config-router)#network 192.168.4.0
R3(config-router)#network 192.168.100.0
R3(config-router)#network 192.168.102.0
```

```
R4(config)#router rip
R4(config-router)#network 192.168.2.0
R4(config-router)#network 192.168.3.0
R4(config-router)#network 192.168.102.0
R4(config-router)#network 192.168.103.0
```

**Step 3: Configure NAT**

=====

```
R1(config)#ip nat inside source static 192.168.1.10 209.165.200.241
```

```
R1(config)#ip nat pool NAT-POOL 209.165.200.242 209.165.200.244 netmask 255.255.255.248
```

```
R1(config)#access-list 10 permit 192.168.1.0 0.0.0.255
```

```
R1(config)#access-list 10 permit 192.168.2.0 0.0.0.255
```

```
R1(config)#access-list 10 permit 192.168.3.0 0.0.0.255
```

```
R1(config)#access-list 10 permit 192.168.4.0 0.0.0.255
```

```
R1(config)#ip nat inside source list 10 pool NAT-POOL
```

```
R1(config)#interface serial 0/0/0
```

```
R1(config-if)#ip nat outside
```

```
R1(config-if)#exit
```

```
R1(config)#interface serial 0/0/1
```

```
R1(config-if)#ip nat in
```

```
R1(config-if)#exit
```

```
R1(config)#interface serial 0/1/1
```

```
R1(config-if)#ip nat in
```

```
R1(config-if)#exit
```

**Step 5: Design and Implement ACL on Specific Router**

=====

```
Q1
```

===

```
R2(config)#access-list 1 deny host 192.168.3.11
```

```
R2(config)#access-list 1 permit any
```

```
R2(config)#int gigabitEthernet 0/0
```

```
R2(config-if)#ip access-group 1 out
```

```
R2(config-if)#exit
```

```
Q3
```

===

```
ISP(config)#access-list 1 deny 10.0.0.0 0.255.255.255
```

```
ISP(config)#access-list 1 deny 172.16.0.0 0.15.255.255
```

```
ISP(config)#access-list 1 deny 192.168.0.0 0.0.255.255
```

```
ISP(config)#access-list 1 permit any
```

```
ISP(config)#interface serial 0/0/0
```

```
ISP(config-if)#ip access-group 1 in
```

```
ISP(config-if)#iexit
```