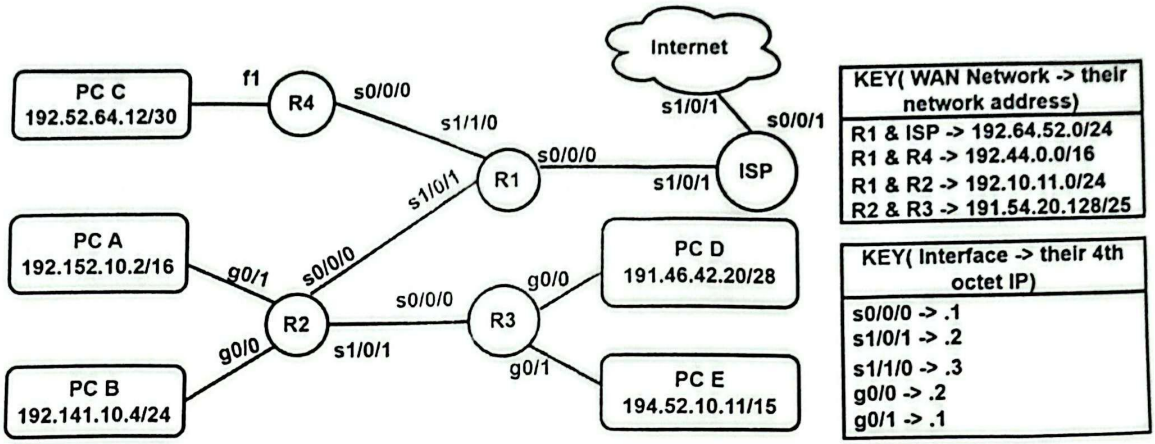
25-Summer-CSE421-2 Quiz 9-A Marks: 15 Time: 20 mins

Name: ID: Serial:



1. From the routing table, mention how you can identify the directly connected networks. **ONE sentence at max. [2]**

   Ans:

2. Configure a recursive default static route on R2. **[3]**

   ip route _____

3. Configure a directly attached floating default static route in R2 for the above. Assume R3 is connected to the ISP router using interface s0/0/1 (not shown in figure). **[4]**

   ip route _____

4. Determine the significance of [40/0] in the routing table. Basically tell what this is called and what it's used for. **[3]**

   40 = _____

   _____

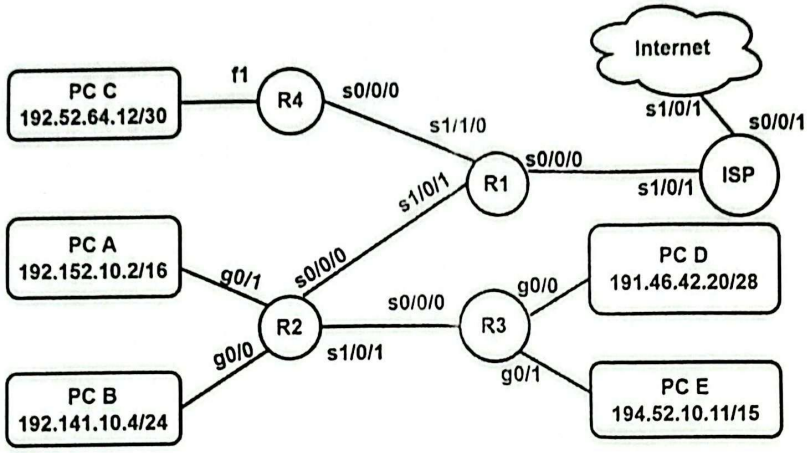
   00 = _____

   _____

5. Why is a directly attached static route better than a recursive route? ONE sentence. **[3]**

25-Summer-CSE421-2 Quiz 9-B Marks: 15 Time: 20 mins

Name: ID: Serial:



KEY(WAN Network -> their network address)
R1 & ISP -> 192.64.52.0/24
R1 & R4 -> 192.44.0.0/16
R1 & R2 -> 192.10.11.0/24
R2 & R3 -> 191.54.20.128/25

KEY(Interface -> their 4th octet IP)
s0/0/0 -> .1
s1/0/1 -> .2
s1/1/0 -> .3
g0/0 -> .2
g0/1 -> .1

1. On R3, identify the networks that will be added to the table without any routing configuration. **[2]**
   a. **Network one:** _____ *Keep it blank if it doesn't exist*
   b. **Network two:** _____ *Keep it blank if it doesn't exist*
   c. **Network three:** _____ *Keep it blank if it doesn't exist*
   d. **Network four:** _____ *Keep it blank if it doesn't exist*
2. Configure a directly attached static route on R2 to reach R4 LAN with AD 50 **[4]**

   ip route _____
3. Configure a recursive route so that a S* entry is added in R1's routing table. **[3]**

   ip route _____
4. Determine the AD of a back up route for Q3. **[3]**

   AD = _____
5. R4 is discarding the packet whose destination IP is 172.42.10.4. Deduce the reason behind this. **ONE sentence at max. [3]**