United International University (UIU)

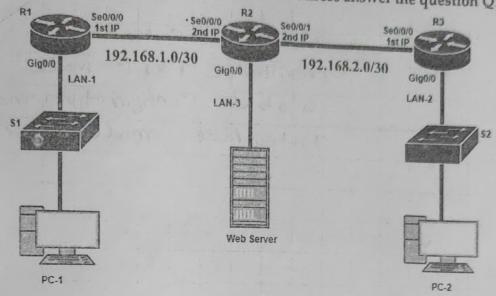
Department of CSE Computer Networks

Summer 2022 – Lab Mid Exam Set-5
Marks: 20 Time: 30 minutes

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Refer to the following diagram and Network Address answer the question Q1 to Q5,



Address: LAN-1: 192.168.1.64/26, LAN-2: 192.168.2.32/28, LAN-3: 192.168.3.16/29

Q1. What is the default gateway for the Web Server?

Answer: 192.168.3.17

[1]

Q2. Write down the IP Address and Subnet Mask of PC-2.

Answer: 5M - 155.255.255.251 255.155.240 SM

102.168. -2, 192.168.2.33 19

Q3. Find the IP addresses of Gig0/0 and Se0/0/0 in R1 Router?

[1]

Answer: Se 0/0/0 → 102.168.1.1 Gigolo → 102.168.1.65

Q4. Write the subnet mask of LAN-2 and how many possible host in this Subnetwork? [2]

Answer: 255.255.255.740 24-2214

Q5. If you configuring Static Routing in R1, Write down the Destination networks and Next Hop IP

Answer: Destinations! 192,168.3.18, 192.168.1.66,

Arent Hop IP: 192-168:1.2.

Q6. Which network addresses should you use to configure RIP for the router R2? [2] Answer:

novter nip net 192.168.1.0 net 192.168.2.0 net 192.168.3.16

[2]

Router Prompt	IOS Mode Name
Router >	USER EXEC Mode
Router #	Previlledge EXEC mode
Router (config)#	alobal configuration made
Router (config-if)#	Intertace modelother

Q8. Multiple Choice

What Type of cable used in Router to Switch? [1] . Copper Street Throw v. Console iii. Copper Cross-Over iv. Serial Cable

2. When looking at the routing table, how do you know which entries have been learned through Static Default? [1]

i) The entry with code R ii) The entry with code C iii) The entry with code S iv) The entry with code RIP v) The entry with code Static vi) The entry with code S*

3. What command is used to view your routing table? [1] i. Router (config) # show run ii. Router# show ip route iii. Router (config) # show ip route v. Router# show running table vi. Router# show running-config iv. Router# show route table

4. You wish to disable the Fast Ethernet interface on your router. What command would you use? . . [1] i) router(config-if)#shutdown ii) router(config-if)#disable

router(config)#shutdown interface F0/0 iv) router(config)#disable interface F0/0 v) router(config)#shutdown

5. What types of actions can an administrator perform at this IOS prompt? (Select two.) R1(config-if)#

Disable the interface i) Show running-config iii) Show the IOS version iv) Change the hostname Assign an IP address

Subnet Calculation

Q9. Which of the following statements are true of 190.88.122.45/19? (Choose three.)

1. The network is not subnetted.

2. The first valid address of the subnet is 190.38.122.1.

3. The network ID of the subnet is 190.88.122.0. 1. The first valid address of the subnet is 190.88.96.1.

5. The last valid address of the subnet is 190.88.96.254.

6. The last valid address of the subnet is 190.88.255.254.

The network is subnetted The broadcast address of the subnet is 190.88.127.255.

Q10. You need to assign the fourth valid IP address of 107.53.100.10/12 to the Fast Ethernet port on the [1] router. What address would you use?

i) 107.53.0.4

ii) 107.53.100.4

iii) 107.0.0.4