CSE421 Assignment 06 [MSMA | 2024 Fall]

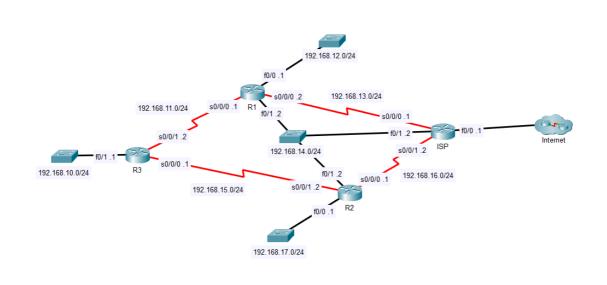
Total points 100/100

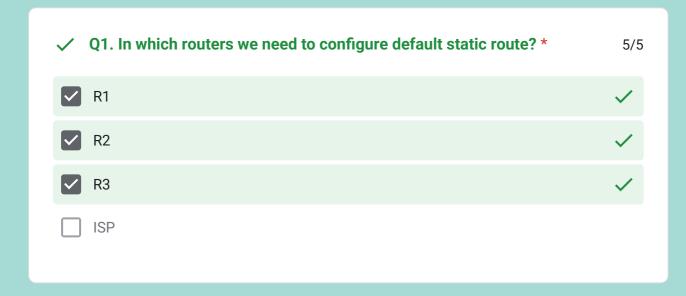
Answer all the questions in this form. You can submit only once even if you submit by mistake. So, make sure that your answers are put correctly by refreshing the page.

Deadline: January 01, 2025 (Wednesday) 11:59:59pm

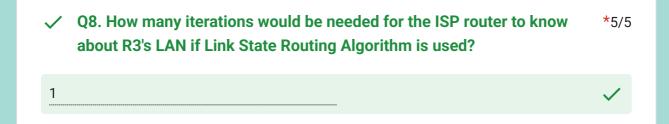
The respondent's email (**shreya.adrita.banik@g.bracu.ac.bd**) was recorded on submission of this form.

Answer Q1 to Q8 based on the following topology. (S0/0/0 .2 means interface name S0/0/0 and last octet value of this interface's IP address is 2)





Q2. How many static routes we need to configure for R3? (don't considerant internet to be a network)	er *5/5
5	/
Q3. After setting up the IP addresses to all the interfaces of R2, how many C's will be present in R2's routing table?	* 5/5
4	/
Q4. Write the command to create a static route from R1 to R2's Lan using next hop IP address. (The path should be R1->R3->R2)	*10/10
ip route 192.168.17.0 255.255.255.0 192.168.11.2	✓
✓ Q5. Write the command to create a floating static route having AD=5 from R1 to R2's Lan using next hop IP address. (The path should be R1->ISP->R2)	*10/10
ip route 192.168.17.0 255.255.255.0 192.168.13.1 5	✓
✓ Q6. Create a floating default static route having AD=5 on R3 using exit interface. (The path should be R3->R1->ISP)	*10/10
ip route 0.0.0.0 0.0.0.0 s0/0/1 5	✓
✓ Q7. How many iterations would be needed for the ISP router to know about R3's LAN if Distance Vector Routing Algorithm is used?	* 5/5
2	✓



Answer Q9 to Q14 based on the following scenario.

```
192.168.0.0/25 is subnetted, 2 subnets
S
        192.168.0.0/25 is directly connected, Serial0/1/0
        192.168.0.128/25 [1/0] via 192.168.1.241
S
     192.168.1.0/24 is variably subnetted, 11 subnets, 6 masks
        192.168.1.0/25 is directly connected, Serial0/1/0
S
        192.168.1.128/26 is directly connected, Serial0/1/0
C
        192.168.1.192/28 is directly connected, FastEthernet0/0
        192.168.1.193/32 is directly connected, FastEthernet0/0
_{\rm L}
        192.168.1.208/28 is directly connected, FastEthernet0/1
С
\mathbf{L}
        192.168.1.209/32 is directly connected, FastEthernet0/1
S
        192.168.1.224/29 is directly connected, Serial0/1/0
        192.168.1.232/29 is directly connected, Serial0/1/0
S
C
        192.168.1.240/30 is directly connected, Serial0/1/0
L
        192.168.1.242/32 is directly connected, Serial0/1/0
        192.168.1.244/30 is directly connected, Serial0/1/0
     0.0.0.0/0 [1/0] via 192.168.1.241
```

✓ Q9. Which networks are directly connected to the router? *	10/10
<u>192.168.0.0/25</u>	
<u>192.168.0.128/25</u>	
<u>192.168.1.0/25</u>	
<u>192.168.1.128/26</u>	
192.168.1.192/28	✓
<u>192.168.1.193/32</u>	
192.168.1.208/28	✓
<u>192.168.1.209/32</u>	
<u>192.168.1.224/29</u>	
<u>192.168.1.232/29</u>	
192.168.1.240/30	~
<u>192.168.1.242/32</u>	
<u>192.168.1.244/30</u>	
0.0.0.0/0	

✓ Q10. Which networks static routing was done using exit interface?	* 10/10
<u>192.168.0.0/25</u>	✓
<u>192.168.0.128/25</u>	
<u>192.168.1.0/25</u>	✓
192.168.1.128/26	✓
192.168.1.192/28	
192.168.1.193/32	
192.168.1.208/28	
192.168.1.209/32	
192.168.1.224/29	✓
192.168.1.232/29	✓
192.168.1.240/30	
192.168.1.242/32	
192.168.1.244/30	✓
0.0.0.0/0	

Q11. Which networks static routing was done using next hop ip address?	*10/10
<u>192.168.0.0/25</u>	
192.168.0.128/25	✓
<u>192.168.1.0/25</u>	
<u>192.168.1.128/26</u>	
192.168.1.192/28	
<u>192.168.1.193/32</u>	
<u>192.168.1.208/28</u>	
<u>192.168.1.209/32</u>	
192.168.1.224/29	
192.168.1.232/29	
<u>192.168.1.240/30</u>	
192.168.1.242/32	
<u>192.168.1.244/30</u>	
0.0.0.0/0	✓

✓ Q12. Select the IP address of the FastEthernet 0/0 interface? *	5/5
<u>192.168.0.0/25</u>	
192.168.0.128/25	
<u>192.168.1.0/25</u>	
192.168.1.128/26	
192.168.1.192/28	
192.168.1.193/32	~
192.168.1.208/28	
<u>192.168.1.209/32</u>	
192.168.1.224/29	
192.168.1.232/29	
192.168.1.240/30	
<u>192.168.1.242/32</u>	
<u>192.168.1.244/30</u>	
0.0.0.0/0	
Q13. What is the value of cost for the 0.0.0.0/0 route? *	5/5
0	✓
✓ Q14. What is the value of AD for the 0.0.0.0/0 route? *	5/5
VIT. What is the value of AD for the 0.0.0.0/0 foute:	3/3
1	✓

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