

3

You are a private contractor hired by the large company to setup the network for their enterprise. The Network ID is 33 and you need at least 125 subnets in their large network with at least 125,000 hosts on each of the subnets. Answer questions 3-5:

What is the class of this ID? \*

(-/2 Points)

- A
- B
- C
- D
- E

4

Write this ID in the four-dotted IP format? \*

(-/2 Points)

- 33.33.33.33
- 0.0.33.0



4

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(-/2 Points)

- 33.33.33.33
- 0.0.33.0
- 0.0.0.33
- 33.33.0.0
- 33.0.0.0



5

What would be the subnet mask for this network? \*  
(-/2 Points)

- 255.255.254.254
- 0.0.255.254
- 255.254.0.0
- 255.0.0.0
- 255.255.0.0

6

Assume that you have been assigned the 132.45.0.0/16 (Class B) network block. You need to establish eight subnets. Hence, answer questions 6 and 7, shown below:

Which one of the following indicates the extended network prefix that allows the creation of eight subnets? \*  
(-/2 Points)

- /19 or 255.255.224.0
- /16 or 255.255.0.0
- /8 or 255.0.0.0
- /24 or 255.255.255.0
- None of the network prefixes mentioned

7

Which of the following express(s) the available subnets in dotted-decimal notation? \*  
(-/2 Points)

- 132.45.96.0/19
- 132.45.160.0/19



7

Which of the following express(s) the available subnets in dotted-decimal notation? \*  
(-/2 Points)

- 132.45.96.0/19
- 132.45.160.0/19
- 132.45.224.0/19
- 132.45.32.0/19
- All of the values mentioned

8

Study the following figure and then answer the questions 8-9, shown below:  
Find the values of X1, X2, and X3 (in ms) available in this figure, respectively? \*  
(-/2 Points)

RouterC									
IP-EIGRP neighbors for process 44									
H	Address	Interface	Hold (sec)	Uptime (ms)	SRTT	RTO	Q Cnt	Seq Num	
0	192.168.0.1	Se0	11	00:03:09	2000	X1	0	6	
1	192.168.1.2	Et0	12	00:34:46	30	X2	0	4	
1	192.168.2.3	Se1	13	00:34:46	80	X3	0	8	



8

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1	192.168.2.3	Se1	13	00:34:46	80	X3	0	8

- 5000, 200, 480
- 5000, 180, 480
- 2000, 180, 480
- 5000, 5000, 5000
- None of the values mentioned

9

Imagine the RTO values are expired and we did not receive any acknowledgment to reliable packets. What will be the new values of RTO (i.e., X1, X2, and X3), respectively? \*  
(-/2 Points)



9

Imagine the RTO values are expired and we did not receive any acknowledgment to reliable packets. What will be the new values of RTO (i.e., X1, X2, and X3), respectively? \* (-/2 Points)

- 5000, 5000, 5000
- 5000, 300, 720
- 2000, 300, 480
- 5000, 300, 360
- 5000, 200, 720



10

The classfull IP address 192.36.7.7: ----- \* (-/1 Points)

- is a Class C address
- includes a 16-bit host number
- both (a) and (b) are true
- neither (a) nor (b) is true
- is a Class B address

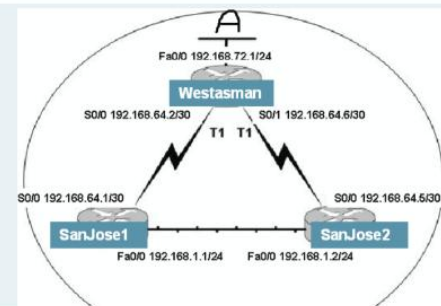
is a Class B address

11

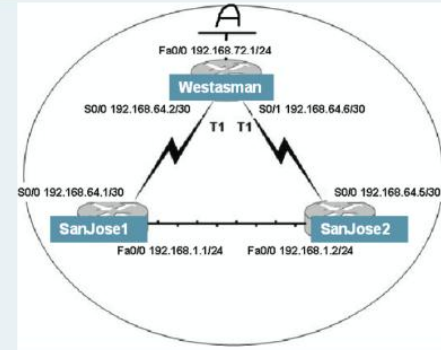
An IPv4 address is ----- \*  
(-/2 Points)

- 8 bits long
- 16 bits long
- 32 bits long
- 128 bits long
- 64 bits long

12



12



Study the following figure and answer the question below (14) bearing in mind that SanJose1 want to find a route to network A.

What is the optimal feasible distance to that network? \*  
(-/2 Points)

- 2172416
- 2174976
- 540160
- 2198016
- None of the values mentioned





13

IP is \_\_\_\_\_ datagram protocol \*  
(-/2 Points)

- an unreliable
- a connectionless
- both a and b
- none of the mentioned

14

What is the name of the mechanism that makes sure of allocating IPv4 address space efficiently? Through this mechanism, the ISP carve out a block of its registered address space that specifically meets the needs of each client, provides additional room for growth, and does not waste a scarce resource. This is instead of allocating only /8, /16, or /24 addresses: \*  
(-/2 Points)

- Classless Inter-Domain Routing (CIDR)
- Classful IP addressing
- Subnetting
- All of the mentioned
- Both B and C



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Both B and C

**15**

Which one of the following is a distance vector routing protocol? \*  
(-/2 Points)

RIP

OSPF

IS-IS

EIGRP

Both A and D

POWERUNIT

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