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Started on	Tuesday, 4 May 2021, 11:11 AM
State	Finished
Completed on	Tuesday, 4 May 2021, 11:53 AM
Time taken	42 mins 30 secs
Grade	85.00 out of 100.00

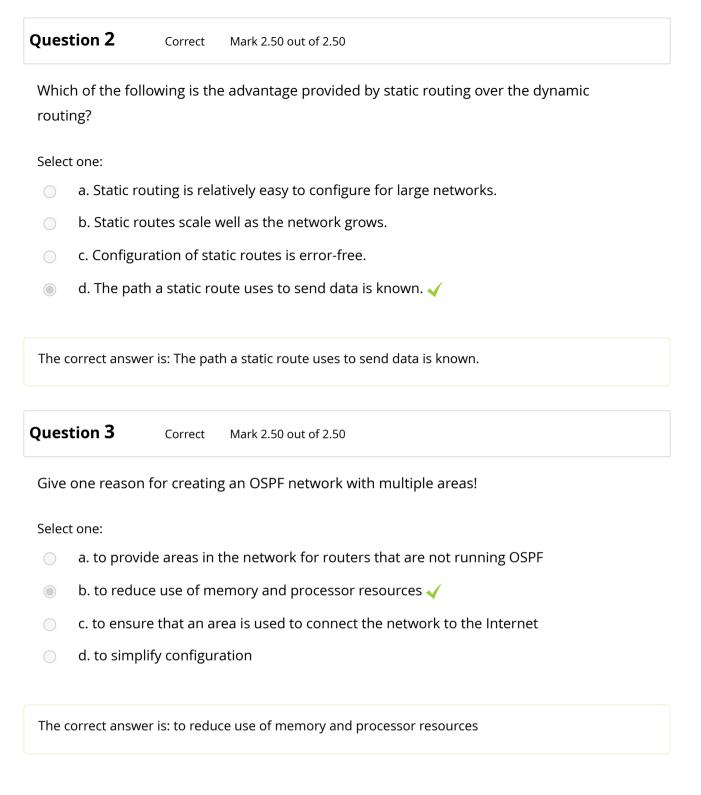
Question 1 Correct Mark 2.50 out of 2.50

What is an advantage of using dynamic routing protocols instead of static routing?

Select one:

- a. the path is chosen by the administrator
- b. fewer router resource overhead requirements
- c. more secure in controlling routing updates
- d. ability to maintain routing table without intervention

The correct answer is: ability to maintain routing table without intervention



Question 4 Correct Mark 2.50 out of 2.50

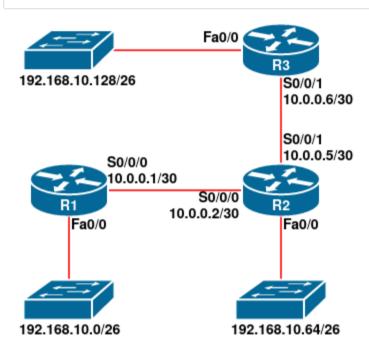
What is used to facilitate hierarchical routing in OSPF?

Select one:

- a. frequent SPF calculations
- b. the election of designated routers
- c. the use of multiple areas
- d. autosummarization

The correct answer is: the use of multiple areas

Question 5 Correct Mark 2.50 out of 2.50



What will router R2 do with a packet destined for 192.168.10.50?

Select one:

- a. drop the packet
- b. send the packet out interface Serial0/0/1
- c. send the packet out interface FastEthernet0/0
- d. send the packet out interface Serial0/0/0

The correct answer is: send the packet out interface Serial0/0/0

Question 6

Correct

Mark 2.50 out of 2.50

Which statement express one of key characteristics of BGP?

Select one:

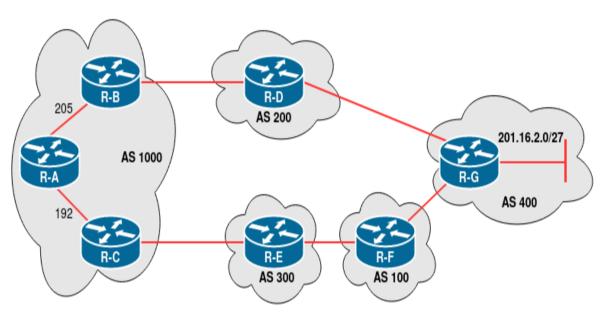
- a. It uses cost as its metric.
- b. It is an advanced distance vector routing protocol.
- c. It is a policy-based routing protocol.
- d. It uses bandwidth and delay as its metric.

The correct answer is: It is a policy-based routing protocol.

Question 7

Incorrect

Mark 0.00 out of 15.00

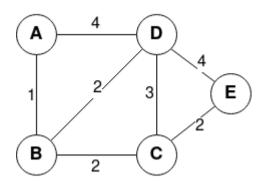


R-B receives an eBGP advertisement from R-D. When propagated into AS 1000 by iBGP, which router would be used as the next hop for R-C?

Select one:

- a. R-D
- b. R-A
- c. R-B
- d. R-E X

The correct answer is: R-A

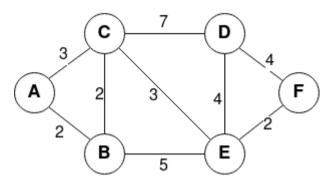


Consider the above network. With the indicated link costs, use Link State routing algorithm to compute the shortest path from **A** to all network nodes. Show how the algorithm works by computing a table in the following format:

NOTE:

- Do not give space between D(x) and p(x), while the node is case insensitive, e.g. 3,A or 4,b or 5.c etc
- For infinity link cost, you can simply write inf.
- If there is any tie in least cost path calculation to some nodes, take left most node first, and then go to the right. For example: D(A) = 3, D(C) = 3, D(E) = 3, then you take D(A) first, then D(C), and finally D(E).

N'	D(B),p(B)	D(C),p(C)	D(D),p(D)	D(E),p(E)	
A	1,A	inf	4,A	inf	
AB ✓	1,A	3,B	3,B	inf	
ABC ✓	1,A	3,B	3,B	5,C 🗸	
ABCD ✓	1,A	3,B	3,B	5,C ~	
ABCDE ✓					



Consider the network shown above, and assume that each node initially knows the costs to each of its neighbors. Consider the distance-vector algorithm. Show the distance table entries at node **F** after the **first iteration**!

NOTE:

- It is case insensitive
- If the cost = infinity, you can simply write **inf** and the corresponding next hop can be written as '-' (without quote)
- If there are more than one paths with similar minimum cost, choose only one possible next hop (don't write all possible next hops)

	A		В		С		D		Е	
Cost	inf] 🗸	7		5		4	_	2	\
Next hop	-		E	√	E	_	D	√	E	√