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QUESTION 1

Which IEEE standard protocol is initiated as a result of successful DTP completion in a switch over Fast Ethernet?

A. 802.3ad

B. 802.1w

C. 802.1D

D. 802.1Q

Correct Answer: D

Dynamic Trunking Protocol (DTP) is a Cisco proprietary protocol for negotiating trunking on a link between two devices and for negotiating the type of trunking encapsulation (802.1Q) to be used.

QUESTION 2

What is the danger of the permit any entry in a NAT access list?

- A. It can lead to overloaded resources on the router.
- B. It can cause too many addresses to be assigned to the same interface.
- C. It can disable the overload command.
- D. It prevents the correct translation of IP addresses on the inside network.

Correct Answer: A

QUESTION 3

A router receives information about network 192.168.10.0/24 from multiple sources. What will the router consider the most reliable information about the path to that network?

A. a directly connected interface with an address of 192.168.10.254/24

- B. a static route to network 192.168.10.0/24
- C. a RIP update for network 192.168.10.0/24
- D. an OSPF update for network 192.168.0.0/16
- E. a default route with a next hop address of 192.168.10.1
- F. a static route to network 192.168.10.0/24 with a local serial interface configured as the next hop

Correct Answer: A

When there is more than one way to reach a destination, it will choose the best one based on a couple of things. First, it



will choose the route that has the longest match; meaning the most specific route. So, in this case the /24 routes will be chosen over the /16 routes. Next, from all the /24 routes it will choose the one with the lowest administrative distance. Directly connected routes have an AD of 1 so this will be the route chosen.

QUESTION 4

What is the default administrative distance of OSPF?

A. 90

B. 100

C. 110

D. 120

Correct Answer: C

Administrative distance is the feature that routers use in order to select the best path when there are two or more different routes to the same destination from two different routing protocols. Administrative distance defines the reliability of a

routing protocol. Each routing protocol is prioritized in order of most to least reliable (believable) with the help of an administrative distance value.

Default Distance Value Table

This table lists the administrative distance default values of the protocols that Cisco supports:

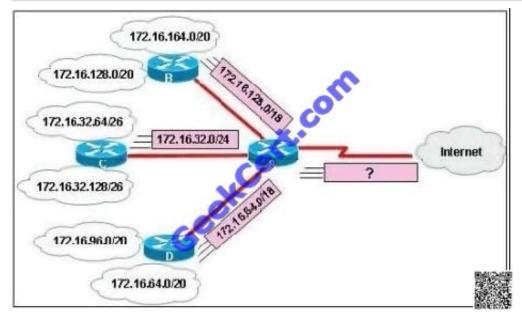


Route Source	Default Distance Values
Connected interface	0
Static route	1
Enhanced Interior Gateway Routing Protocol (EIGRP) summary route	5
External Border Gateway Protocol (BGP)	20
Internal EIGRP	90
IGRP	100
OSPF	110
Intermediate System-to-Intermediate System (IS-IS)	115
Routing Information Protocol (RIP)	120
Exterior Gateway Protocol (EGP)	140
On Demand Routing (ODR)	160
External EIGRP	170
Internal BGP	200
Unknown*	255

QUESTION 5

Refer to the exhibit.





In this VLSM addressing scheme, what summary address would be sent from router A?

- A. 172.16.0.0/16
- B. 172.16.0.0 /20
- C. 172.16.0.0 /24
- D. 172.32.0.0 /16
- E. 172.32.0.0 /17
- F. 172.64.0.0 /16
- Correct Answer: A

Router A receives 3 subnets: 172.16.64.0/18, 172.16.32.0/24 and 172.16.128.0/18.

All these 3 subnets have the same form of 172.16.x.x so our summarized subnet must be also in that form -> Only A, B or.

The smallest subnet mask of these 3 subnets is /18 so our summarized subnet must also have its subnet mask equal or smaller than /18.

-> Only answer A has these 2 conditions ->.

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