

CCNA3 v6.0 Chapter 8 Exam Full 100%

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1. Question

What is used to create the OSPF neighbor table?

- ☐ adjacency database
- ☐ link-state database
- ☐ forwarding database
- ☐ routing table

2. Question

Which OSPF component is identical in all routers in an OSPF area after convergence?

- ☐ adjacency database
- ☒ link-state database
- ☐ routing table
- ☐ SPF tree

3. Question

Which OPSF packet contains the different types of link-state advertisements?

- ☐ hello
- ☐ DBD
- ☐ LSR
- ☒ LSU
- ☐ LSAck

4. Question

What happens immediately after two OSPF routers have exchanged hello packets and have formed a neighbor adjacency?

- ☐ They exchange DBD packets in order to advertise parameters such as hello and dead intervals.
- ☐ They negotiate the election process if they are on a multiaccess network.
- ☐ They request more information about their databases.
- ☒ They exchange abbreviated lists of their LSDBs.

5. Question

What will an OSPF router prefer to use first as a router ID?

- ☒ any IP address that is configured using the router-id command
- ☐ a loopback interface that is configured with the highest IP address on the router
- ☐ the highest active interface IP that is configured on the router
- ☐ the highest active interface that participates in the routing process because of a specifically configured network statement

6. Question

What are the two purposes of an OSPF router ID? (Choose two.)

- ☐ to facilitate the establishment of network convergence
- ☒ to uniquely identify the router within the OSPF domain
- ☐ to facilitate the transition of the OSPF neighbor state to Full
- ☒ to facilitate router participation in the election of the designated router
- ☐ to enable the SPF algorithm to determine the lowest cost path to remote networks

7. Question

By default, what is the OSPF cost for any link with a bandwidth of 100 Mb/s or greater?

- ☒ 1
- ☐ 100
- ☐ 10000
- ☐ 100000000

8. Question

Which command should be used to check the OSPF process ID, the router ID, networks the router is advertising, the neighbors the router is receiving updates from, and the default administrative distance?

- ☒ show ip protocols
- ☐ show ip ospf neighbor
- ☐ show ip ospf
- ☐ show ip ospf interface

9. Question

What are two reasons that will prevent two routers from forming an OSPFv2 adjacency? (Choose two.)

- ☐ a mismatched Cisco IOS version that is used
- ☒ mismatched OSPF Hello or Dead timers
- ☒ mismatched subnet masks on the link interfaces
- ☐ use of private IP addresses on the link interfaces
- ☐ one router connecting to a FastEthernet port on the switch and the other connecting to a GigabitEthernet port

10. Question

Which three addresses could be used as the destination address for OSPFv3 messages? (Choose three.)

- ☒ FE80::1
- ☒ FF02::5
- ☒ FF02::6
- ☐ FF02::A
- ☐ FF02::1:2
- ☐ 2001:db8:cafe::1

11. Question

A network administrator enters the command ipv6 router ospf 64 in global configuration mode. What is the result of this command?

- ☐ The router will be assigned an autonomous system number of 64.
- ☐ The router will be assigned a router ID of 64.
- ☐ The reference bandwidth will be set to 64 Mb/s.
- ☒ The OSPFv3 process will be assigned an ID of 64.

12. Question

When a network engineer is configuring OSPFv3 on a router, which command would the engineer issue immediately before configuring the router ID?

- ☐ ipv6 ospf 10 area 0
- ☒ ipv6 router ospf 10
- ☐ interface serial 0/0/1
- ☐ clear ipv6 ospf process

13. Question

Single area OSPFv3 has been enabled on a router via the ipv6 router ospf 20 command. Which command will enable this OSPFv3 process on an interface of that router?

- ☐ ipv6 ospf 0 area 0
- ☐ ipv6 ospf 20 area 20
- ☐ ipv6 ospf 0 area 20
- ☒ ipv6 ospf 20 area 0

14. Question

What does a Cisco router use automatically to create link-local addresses on serial interfaces when OSPFv3 is implemented?

- ☐ the highest MAC address available on the router, the FE80::/10 prefix, and the EUI-48 process
- ☐ the FE80::/10 prefix and the EUI-48 process
- ☐ the MAC address of the serial interface, the FE80::/10 prefix, and the EUI-64 process
- ☒ an Ethernet interface MAC address available on the router, the FE80::/10 prefix, and the EUI-64 process

15. Question

Which command will verify that a router that is running OSPFv3 has formed an adjacency with other routers in its OSPF area?

- ☐ show running-configuration
- ☒ show ipv6 ospf neighbor
- ☐ show ipv6 route ospf
- ☐ show ipv6 interface brief

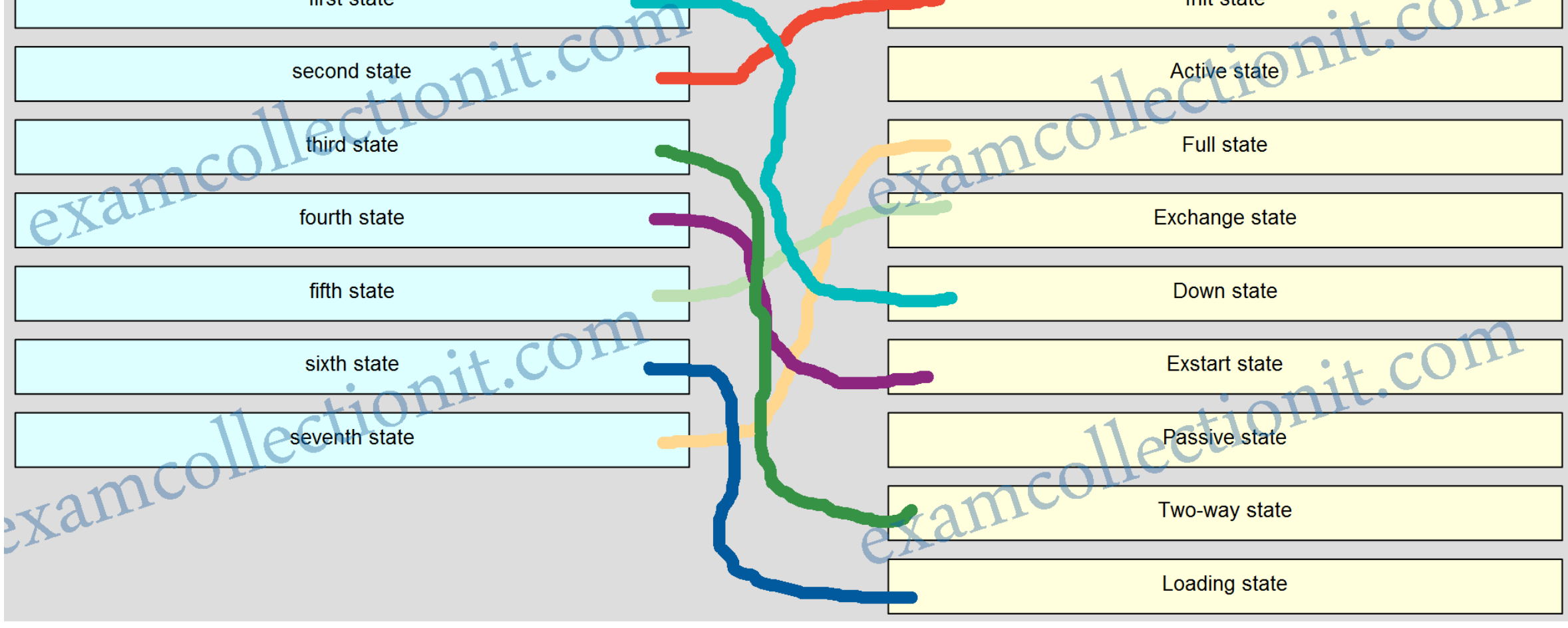
16. Question

Which command will provide information specific to OSPFv3 routes in the routing table?

- ☐ show ip route ospf
- ☐ show ip route
- ☐ show ipv6 route
- ☒ show ipv6 route ospf

17. Question

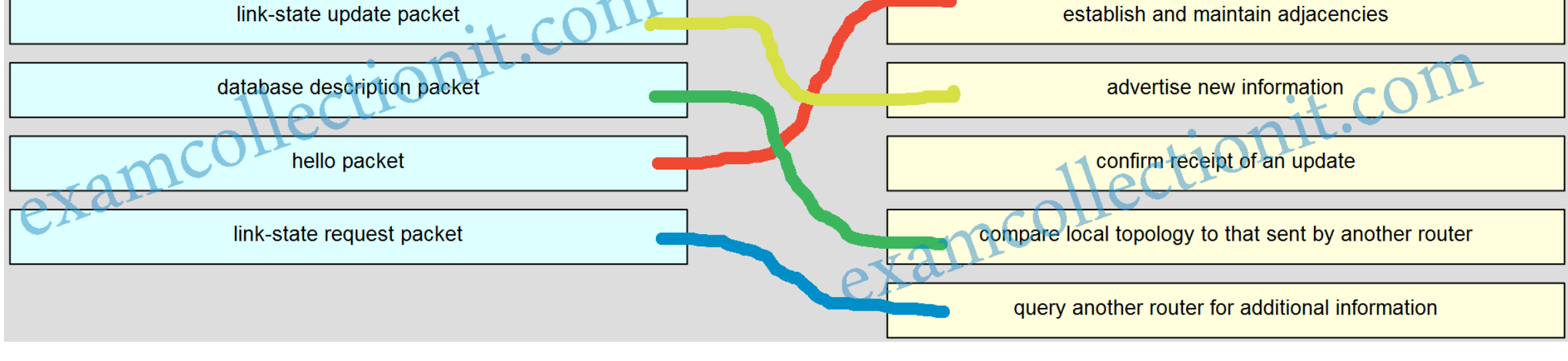
Match the OSPF state with the order in which it occurs. (Not all options are used.)



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18. Question

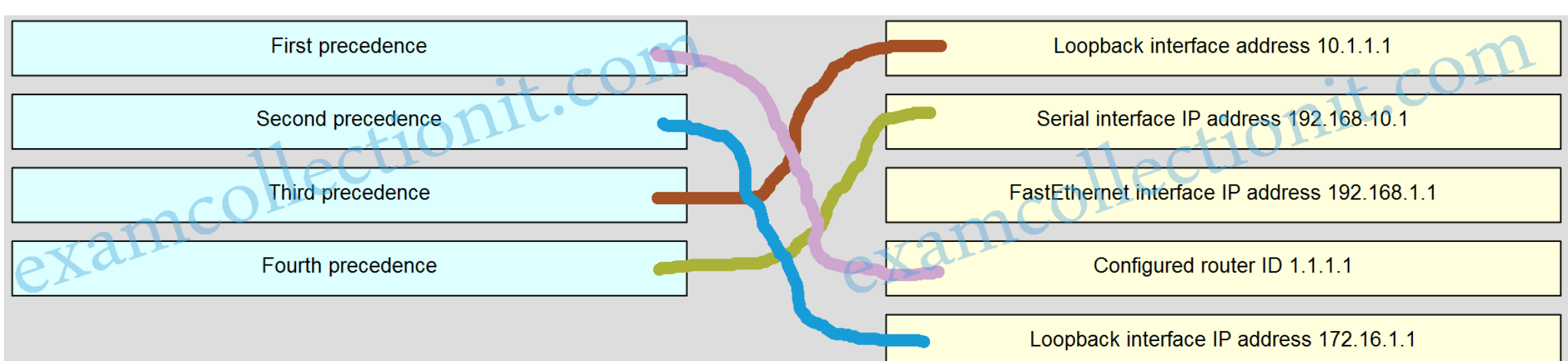
Match each OSPF packet type to how it is used by a router. (Not all options are used.)



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19. Question

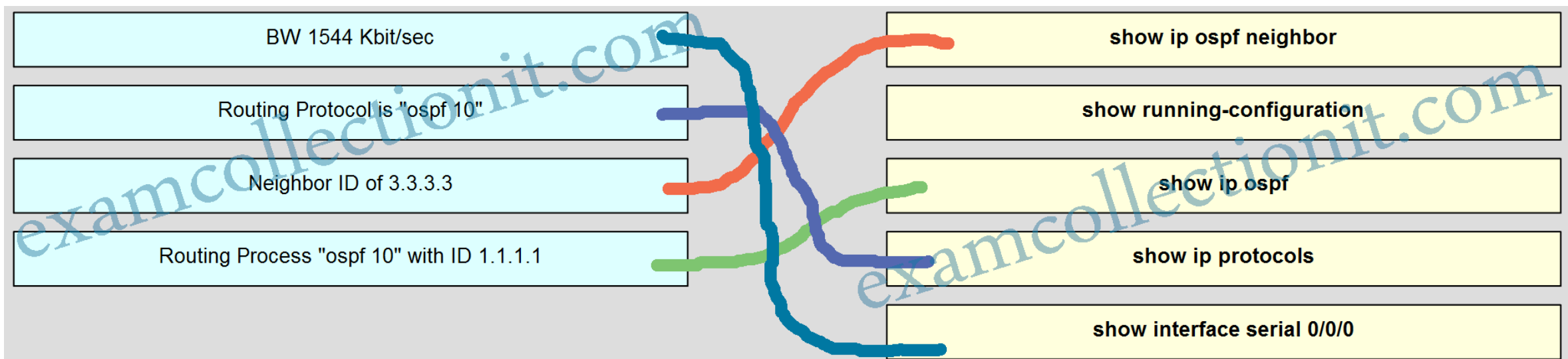
By order of precedence, match the selection of router ID for an OSPF-enable router to the possible router ID options. (Not all option are used.)



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20. Question

Match the information to the command that is used to obtain the information. (Not all options are used.)



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21. Question

Fill in the blank.

OSPF uses **cost** as a metric.

22. Question

Fill in the blank.

The election of a DR and a BDR takes place on **multiaccess** networks, such as Ethernet networks.

23. Question

Open the PT Activity. Perform the tasks in the activity instructions and then complete the task.

What message is displayed on <http://www.ciscoville.com?>

- ☐ Finished!
- ☒ Completion!
- ☐ Success!
- ☐ Converged!

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