

NOKIA



Nokia OSPF Routing Protocol



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Nokia

Exam 4A0-113

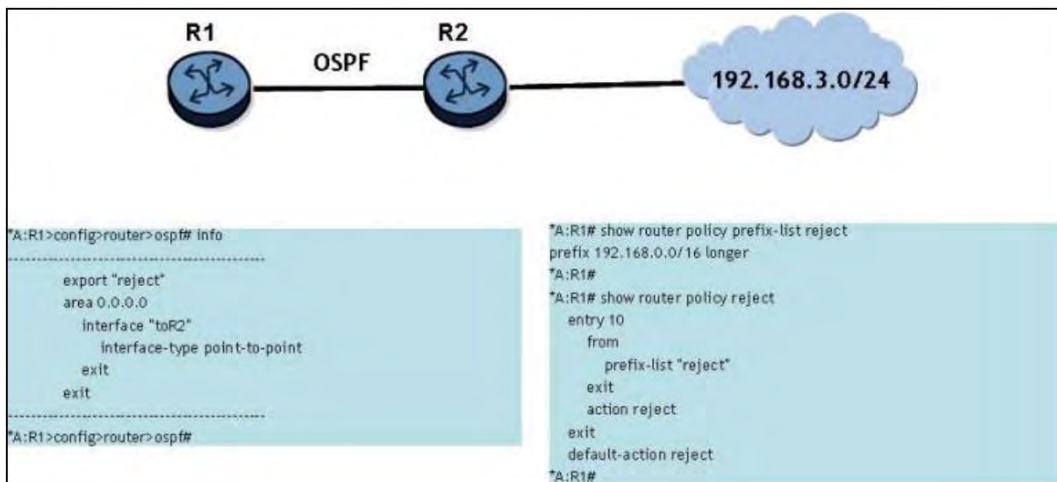
Nokia OSPF Routing Protocol Exam

Version: 3.0

[Total Questions: 103]

Question No : 1

Click the exhibit button.



Router R2 advertises the network 192.168.3.0/24 to router R1 via OSPF. A route policy has been constructed to discard the route on router R1; however, it is not working. What is the problem?

- A. The prefix list reject should be "192.168.3.0/16 exact".
- B. Router R1 should be configured as an OSPF "asbr".
- C. The policy "reject" should be set for import rather than export.
- D. The policy was likely not "committed" after creation.
- E. This is not possible because OSPF cannot use import policies.

Answer: E

Question No : 2

What is the default preference value for a static route in the Nokia 7750 SR router?

- A. 0
- B. 5
- C. 10
- D. 15

Answer: B

Question No : 3

Which of the following OSPFv3 LSAs have an AS scope?

- A. Link Local LSA
- B. Router LSA
- C. Network LSA
- D. Inter-Area Router LSA
- E. Intra-Area Prefix LSA
- F. None of the above LSAs have an AS scope.

Answer: F

Question No : 4

In an IP datagram, which field identifies the receiving application

- A. The protocol field of the transport layer header
- B. The port field of the transport layer header
- C. The protocol field of the network layer header
- D. The port field of the network layer address

Answer: B

Question No : 5

Which of the following commands can be used to display the number of SPF computations that have been performed on a router?

- A. show router ospf area <area-id>
- B. show router ospf neighbor
- C. show router ospf interface
- D. show router ospf status

Answer: A

Question No : 6

Which of the following statements regarding OSPF routing updates on a point-to-point link is true?

- A.** On a point-to-point link, there is no need for a DR and BDR election; all routing updates are sent to 224.0.0.5.
- B.** On a point-to-point link, a DR and BDR are elected. The DR sends link-state advertisements describing the network.
- C.** On a point-to-point link, a DR and BDR are elected. To ensure resiliency, both the DR and BDR send link-state advertisements describing the network.
- D.** On a point-to-point link, there is no need for a DR and BDR election. All routing updates are sent to the unicast address of the neighbor's interface.

Answer: A

Question No : 7

In an OSPF Hello packet what fields must match all neighbor routers on the segment?
(Choose 3)

- A.** Area ID
- B.** Hello and Dead Intervals
- C.** Stub flag
- D.** DR and BDR addresses
- E.** The list of neighbors

Answer: A,B,C

Question No : 8

What command will show the OSPF neighbors, and their status on the Nokia 7750 SR?

- A.** Show ospf neighbors
- B.** Show router ospf neighbors
- C.** Show router ospf adjacency
- D.** Show ospf adjacency

Answer: B

Question No : 9

Which of the following types of networks are supported on an Nokia 7750 SR for OSPF?
Choose two answers.

- A. Broadcast
- B. Non-broadcast multi-access
- C. Point-to-point
- D. Point-to-multipoint

Answer: A,C

Question No : 10

Identify two attributes of Distance Vector Protocols: (Choose two)

- A. Use split horizon by default.
- B. Send information about directly connected links to neighbors at periodic intervals.
- C. Use holddown timers when topologies change to allow for convergence.
- D. Maintain multiple databases: neighbor, topology and routing.

Answer: A,C

Question No : 11

What is the default inbound metric for RIP on the Nokia 7750 SR?

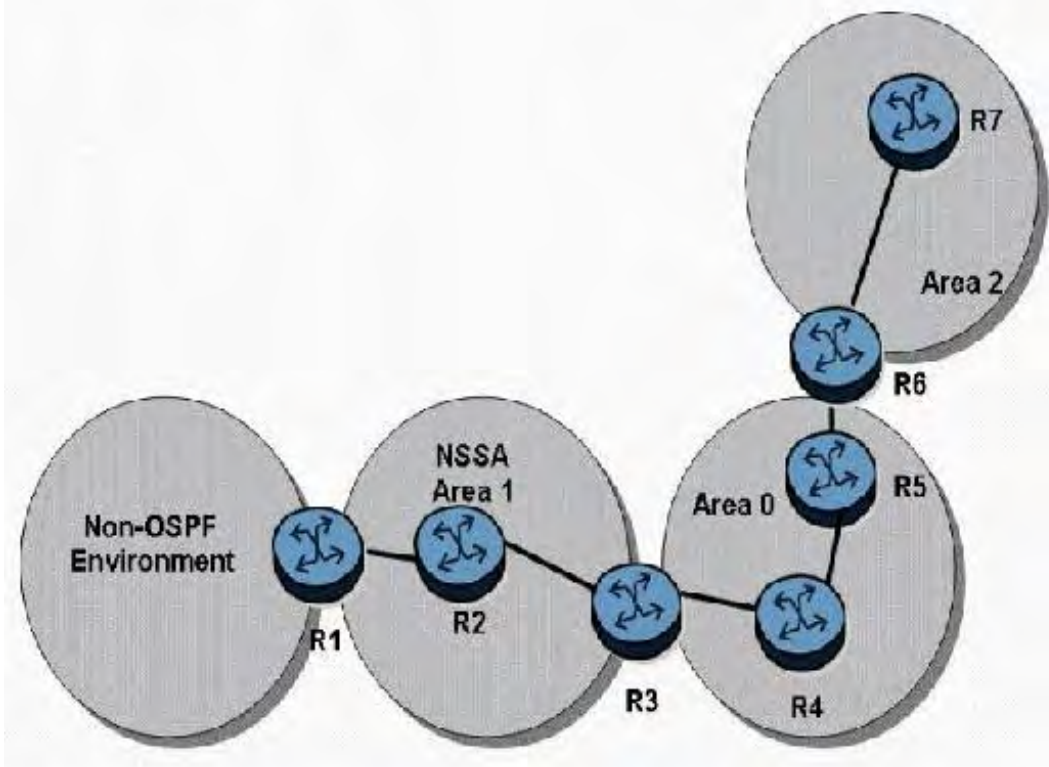
- A. Whatever the advertised metric happens to be.
- B. A value of 1.
- C. This must be administratively set as there is no default value.
- D. A value of 15.

Answer: B

Question No : 12

Click the exhibit button.

Exhibit 4.5.j



In the topology shown, router R1 is an ASBR configured to export external routes to OSPF. Which of the following statements regarding the OSPF LSAs in the network is true?

- A. Router R1 generates a type 5 LSA that is flooded through all OSPF areas.
- B. Router R1 generates a type 7 LSA that is flooded through all OSPF areas.
- C. Router R1 generates a type 5 LSA that is flooded through area 1. Router R2 generates a type 7 LSA that is flooded through areas 0 and 2.
- D. Router R1 generates a type 7 LSA that is flooded through area 1. Router R3 generates a type 5 LSA that is flooded through areas 0 and 2.

Answer: D

Question No : 13

What causes an adjacency to change from down to two ways?

- A. When a link state update is received in response to a link state request.
- B. When a router receives a Hello packet that contains its own router ID in the neighbor list

from a neighbor.

C. When a router receives a database description packet from a neighbor.

D. When a link state acknowledgement is received in response to a link state update.

Answer: B

Question No : 14

What is the default priority value used for electing the DR on an Nokia 7750 SR running OSPF on an Ethernet?

A. Priority of 0

B. Priority of 1

C. Priority of 64

D. Priority of 255

Answer: B

Question No : 15

Click the exhibit button.

Exhibit 4.3.m

```
*A:R6# show router ospf neighbor
```

```
-----  
OSPF Neighbors  
-----
```

Interface-Name	Rtr Id	State	Pr	RetxQ	TTL
test	10.10.10.2	Two Way	1	0	34
test	10.10.10.3	Full	1	0	34
test	10.10.10.5	Full	1	0	34

```
No. of Neighbors: 3  
-----
```

```
*A:R6#
```


What can you deduce from the show command on router R6?

- A.** The router R6 interface is in a multi-access segment. It is neither the DR nor the BDR for the segment. The DR for this segment would be the router with router ID 10.10.10.5.
- B.** The router R6 interface is in a multi-access segment. It is neither the DR nor the BDR for the segment; however, this command does not indicate whether 10.10.10.3 or 10.10.10.5 is the DR or BDR.
- C.** The router R6 interface is in a multi-access segment. It is the BDR, which is why it is not adjacent to the other routers.
- D.** The router R6 interface is in a multi-access segment. It is neither the DR nor the BDR for the segment. The DR for this segment would be the router with router ID 10.10.10.3.

Answer: B

Question No : 16

What are the ways the RID can be created on an Nokia 7750 SR router? (Choose three)

- A.** From the last 32 bits of the chassis MAC address
- B.** From the first 32 bits of the chassis MAC address
- C.** The loopback IP address
- D.** By using the command "config router ospf rid X.X.X.X"
- E.** From the system IP address
- F.** From the highest interface IP address

Answer: A,D,E

Question No : 17

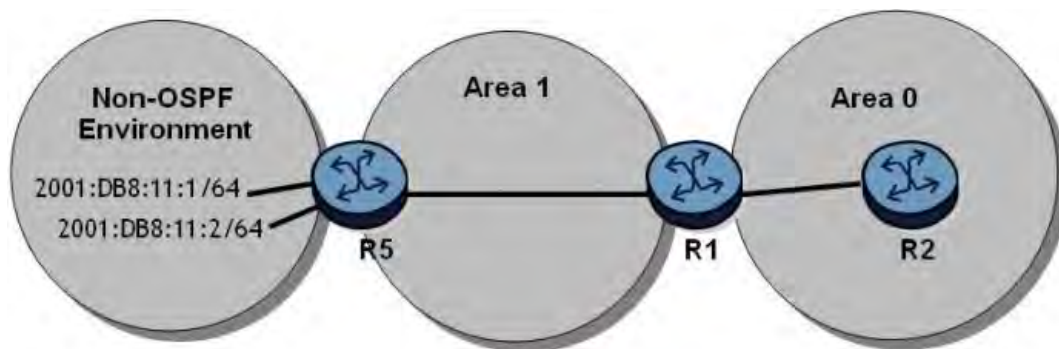
Which of the following statements apply to link state protocol behavior? Choose three answers.

- A.** Routers broadcast the entire route table to all neighbors.
- B.** Information about directly connected links is sent to all neighbors.
- C.** An adjacency database is maintained by each router.
- D.** The sequence number for an update is incremented as it is flooded from router to router.
- E.** The topological database is the same for all routers in a single area.

Answer: B,C,E

Question No : 18

Click on the exhibit.



The route table on router R2 shows the system address of router R5 but it does not show any of the interfaces from the non-OSPF area.

What may be causing this?

- A. 'asbr' is missing from router R1's configuration.
- B. Router R1 needs to have an export policy added to it.
- C. Router R5 does not have an export policy for these prefixes.
- D. Router R1 needs to have an import policy added to it.

Answer: C

Question No : 19

Which of the following statements describe the major features of OSPF? Choose two answers.

- A. Fast reroute capability
- B. Control traffic prioritization
- C. Route redistribution
- D. Traffic engineering extensions
- E. Cut through forwarding