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**Nokia**

**4A0-113**

*Nokia OSPF Routing Protocol*

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### Question: 22

Select the answer below that correctly lists the 5 different OSPF packet types.

- A. Hello, Link State Update, Link State Packet, Link State Acknowledgement, Database Descriptor
- B. Link State Update, Link State Refresh, Link State Acknowledgement, Database Descriptor, Notification
- C. Hello, Link State Refresh, Link State Update, Link State Acknowledgement, Link State Authentication
- D. Hello, Link State Update, Link State Request, Link State Acknowledgement, Database Descriptor

**Answer: D**

### Question: 23

A router receives an OSPF database description packet from a neighbor that references an LSA, which is already in the router's LSDB. The sequence number in the DBD packet is lower than the sequence number of the LSA in the LSDB. What action does the router take?

- A. The router sends a link-state update to its neighbor.
- B. The router sends a link-state acknowledgement to its neighbor.
- C. The router updates the information in its LSDB with the information received from its neighbor.
- D. The router sends a link-state request to its neighbor.
- E. The router takes no action.

**Answer: A**

### Question: 24

What is the metric and maximum routable value for RIP?

- A. Hop count and 16
- B. Hop count and 15
- C. Link cost and 15
- D. Link cost and 16

**Answer: B**

### Question: 25

What address is used when RIPv2 uses multicast to send its updates?

- A. 224.0.0.5
- B. 224.0.0.6

- C. 224.0.0.9
- D. 224.0.0.10
- E. RIPv2 does not have support for multicast

**Answer: C**

**Question: 26**

What are some of the characteristics of Nokia's implementation of non-stop routing? (Choose two)

- A. No protocol extensions required
- B. Only supported by OSPF and IS-IS
- C. Transparent to routing neighbors
- D. Uses Graceful Restart to inter-operate with other vendors

**Answer: A,C**

**Question: 27**

Which of the following cannot be used as a matching criterion in route policy statements?

- A. Source IP address
- B. TCP source port
- C. Prefix list
- D. Protocol type

**Answer: D**

**Question: 28**

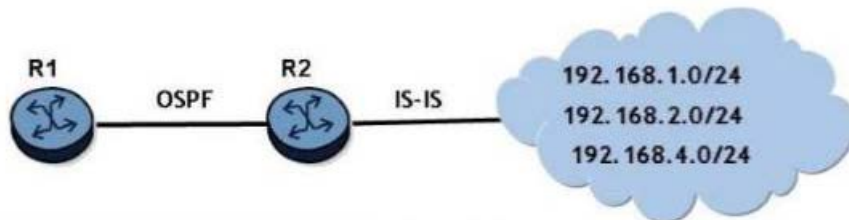
Choose the Distance Vector Protocols from the list below:

- A. OSPF
- B. RIPv1
- C. RIPv2
- D. IS-IS

**Answer: B,C**

**Question: 29**

Click on the exhibit.



```

*A:AIHF_R02>config>router>ospf# info
-----
asbr
export "isis-ospf"
area 0.0.0.0
  interface "system"
    no shutdown
  exit
  interface "toR1"
    interface-type point-to-point
    no shutdown
  exit
exit
#exit
-----
*A:AIHF_R02>config>router>ospf#
  
```

```

*A:AIHF_R02>config>router>policy-options# info
-----
prefix-list "no-redist"
  prefix 192.168.2.0/24 exact
exit
prefix-list "redist-16"
  prefix 192.168.0.0/16 longer
exit
policy-statement "isis-ospf"
  entry 10
    from
      protocol isis
      prefix-list "redist-16"
    exit
    action accept
    exit
  exit
  entry 20
    from
      protocol isis
      prefix-list "no-redist"
    exit
    action reject
    exit
  exit
exit
-----
*A:AIHF_R02>config>router>policy-options#
  
```

Router R2 learns the networks shown from IS-IS. Router R2 is configured to redistribute routes from IS-IS to OSPF as shown. Assume the OSPF and IS-IS adjacencies are operational.

How many OSPF Type 5 LSAs will router R1 receive from router R2?

- A. 0
- B. 1
- C. 2
- D. 3
- E. 4

**Answer: D**

**Question: 30**

Click the exhibit button.

## Exhibit 4.6.g

```
*A:R3>config>router>ospf# show router route-table
Route Table (Router: Base)
```

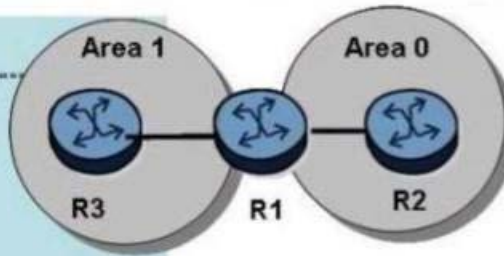
Dest Prefix	Type	Proto	Age	Pref
0.0.0.0/0	Remote	OSPF	00h00m23s	10
10.1.3.1			101	
10.1.3.0/27	Local	Local	05d10h00m	0
toR1			0	
10.10.10.3/32	Local	Local	0144d08h	0
system			0	

No. of Routes: 3

```
*A:R2# show router route-table 192.168.0.0/16 longer
Route Table (Router: Base)
```

Dest Prefix	Type	Proto	Age	Pref
192.168.1.0/24	Local	Local	01h09m41s	0
loop1			0	
192.168.2.0/24	Local	Local	01h09m41s	0
loop2			0	
192.168.3.0/24	Local	Local	01h09m40s	0
loop3			0	
192.168.4.0/24	Local	Local	01h09m40s	0
loop4			0	

No. of Routes: 4



Given the topology and the show commands, and assuming that router R2 advertises all of its loopbacks into OSPF, what is the correct router R1 configuration?

<p>A. *A.R1&gt;config&gt;router&gt;ospf# info</p> <pre> area 0.0.0.0  interface "toR2"    interface-type point-to-point  exit exit area 0.0.0.1  nssa   originate-default-route   no summaries  exit  interface "toR3"    interface-type point-to-point  exit exit </pre> <p>*A.R1&gt;config&gt;router&gt;ospf#</p>	<p>C. *A.R1&gt;config&gt;router&gt;ospf# info</p> <pre> area 0.0.0.0  interface "toR2"    interface-type point-to-point  exit exit area 0.0.0.1  area-range 192.168.0.0/16 advertise  interface "toR3"    interface-type point-to-point  exit exit </pre> <p>*A.R1&gt;config&gt;router&gt;ospf#</p>
<p>B. *A.R1&gt;config&gt;router&gt;ospf# info</p> <pre> area 0.0.0.0  interface "toR2"    interface-type point-to-point  exit exit area 0.0.0.1  nssa   originate-default-route  exit  interface "toR3"    interface-type point-to-point  exit exit </pre> <p>*A.R1&gt;config&gt;router&gt;ospf#</p>	<p>D. *A.R1&gt;config&gt;router&gt;ospf# info</p> <pre> area 0.0.0.0  area-range 192.168.0.0/16 advertise  interface "toR2"    interface-type point-to-point  exit exit area 0.0.0.1  interface "toR3"    interface-type point-to-point  exit exit </pre> <p>*A.R1&gt;config&gt;router&gt;ospf#</p>

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer: A**

### Question: 31

What is the protocol number for OSPF in the IP header?

- A. OSPF uses TCP, so the protocol number is 6.
- B. OSPF uses UDP, so the protocol number is 17.
- C. OSPF does not use I
- D. OSPF has its own protocol number of 89.

**Answer: A**

### Question: 32

Which of the following best describes the type of packets used by OSPF routers to exchange updates on a point-to-point link?



- A. IP packets sent to an IP multicast address.
- B. TCP packets sent to an IP multicast address.
- C. IP packets sent to an IP unicast address.
- D. UDP packets sent to an IP multicast address.

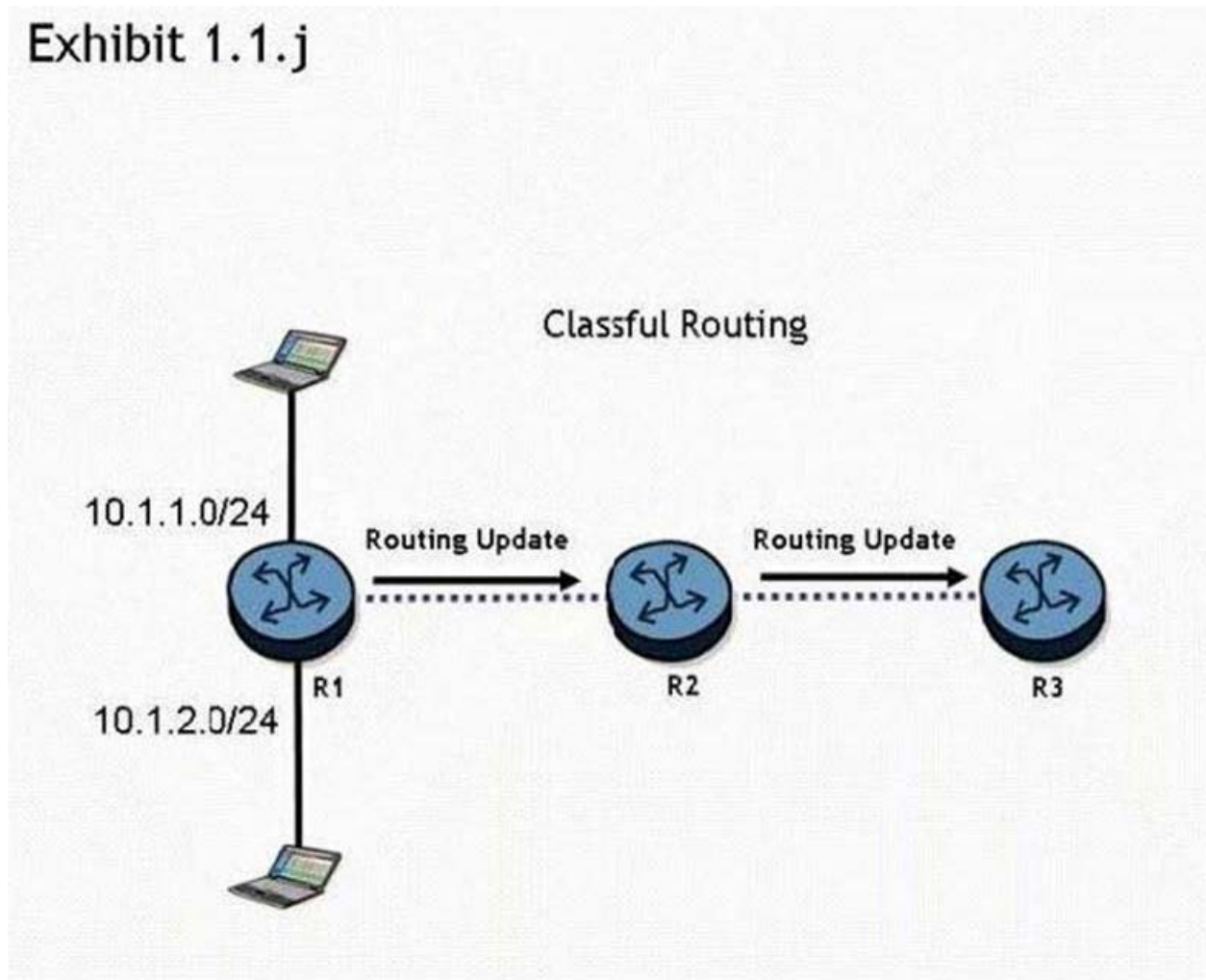
**Answer: A**

### Question: 33

Click the exhibit button.

Routers R1, R2, and R3 are running a classful routing protocol between them. Assuming that router R1 advertises all directly connected networks, how will these networks be represented in router R3's routing table?

#### Exhibit 1.1.j



- A. Router R3's routing table can only contain one of the routes, which will result in route flapping.
- B. Router R3's routing table will have one entry for 10.1.1.0/24 and one entry for 10.1.2.0/24.
- C. The networks will be represented with one entry of 10.0.0.0/8 in router R3's routing table.
- D. The networks will be represented with one entry of 10.0.0.0/24 in router R3's route table.

**Answer: C**

### Question: 34

Which one of the commands below will create a static route to network 2.3.4.0/24 on the AlcatelLucent 7750 SR router?

- A. Static route 2.3.4.0 255.255.255.0 next hop 3.4.5.6
- B. Static-route next-hop 3.4.5.6 2.3.4.0/24
- C. Static route 2.3.4.0/24 next hop 3.4.5.6
- D. Static-route 2.3.4.0/24 next-hop 3.4.5.6

**Answer: D**

### **Question: 35**

When are virtual links used in OSPF?

- A. When two areas need to communicate and there is no area 0.
- B. When an area needs to traverse another area to reach area 0.
- C. When two areas are connected to area 0, but there is no direct path between them.
- D. When an area needs to connect directly to another area without using area 0.

**Answer: B**



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