Enterprise Routing and Switching, Professional (JNCIP-ENT)

1. Which BGP message type contains NLRI information?

A. notification

B. keepalive

C. update

D. open

Answer(s): C

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2. Click the Exhibit button.

```
user@router# show interfaces ge-0/0/1
description "Customer Port";
flexible-vlan-tagging;
native-vlan-id 150;
encapsulation extended-vlan-bridge;
unit 10 {
     vlan-id-list 100-200;
     input-vlan-map push;
     output-vlan-map pop;
}
user@router# show interfaces xe-0/0/48
description "Uplink Port";
vlan-tagging;
unit 10 {
     vlan-id 10;
}

user@router# show vlans v10
interface ge-0/0/1.10;
interface xe-0/0/48.10;
```

Referring to the exhibit, which two statements are true regarding Q-in-Q tunneling? (Choose two.)

- [ ] A. The C-VLAN traffic will be encapsulated with an outer VLAN tag of 150.
- [ ] B. The C-VLANs 100-200 will be sent as the inner VLAN tag.

- [ ] C. The C-VLAN 150 will be sent as the inner VLAN tag.
- [ ] D. The C-VLAN traffic will be encapsulated with an outer VLAN tag of 10.

Answer(s): B D

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3. What is the correct authentication processing order on EX Series switches when multiple Layer 2 authentication methods are enabled?

A. MAC RADIUS –> 802.1X –> captive portal

B. 802.1X –> MAC RADIUS –> captive portal

C. 802.1X –> captive portal –> MAC RADIUS

D. captive portal –> MAC RADIUS –> 802.1X

Answer(s): B

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4. You are implementing a single spanning tree instance in your network and want to use the protocol that will give you the best convergence time in the event of a physical network failure of the root bridge. Which spanning tree protocol will satisfy this requirement?

A. RSTP

B. STP

C. MSTP

D. VSTP

Answer(s): A

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5. What are three well-known mandatory BGP attributes? (Choose three.)

- [ ] A. MED
- [ ] B. AS-path
- [ ] C. origin
- [ ] D. next-hop
- [ ] E. community

Answer(s): B C D

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6. You have PIM SM multicast configured and running in a network environment comprised of EX4300 devices. Your customers report increased delay when switching channels using IPTV. To help decrease the delay, you implement PIM join load balancing. You add the set protocols pim join-load-balance command to the configuration. After committing, you notice that the flows are still using only one path.
In this scenario, which statement is correct?

- [ ] A. The clear pim join-distribution command must be issued.
- [ ] B. The interfaces must be specified to use for load balancing.
- [ ] C. IGMP snooping must also be configured.
- [ ] D. PIM join load-balancing only works for PIM-DM.

Answer(s): A

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7. You have configured CoS on a Junos device. A packet is classified as best effort by a behavior aggregate (BA) classifier, and as expedited forwarding by a multifield (MF) classifier.
Which statement is true in this scenario?

- [ ] A. The packet will be placed in a queue associated with the BA classifier.
- [ ] B. The packet will be placed into the queue which is least congested.
- [ ] C. The packet will be placed into the queue that has the most bandwidth assigned to it.
- [ ] D. The packet will be placed in a queue associated with the MF classifier.

Answer(s): A

8. You must ensure that all management traffic sourced from your Junos devices is set with a specific DSCP code-point value. Which action will accomplish this task?

A. Apply the DSCP code-point to the [edit class-of-service host-outbound-traffic] hierarchy.

B. Apply the DSCP code-point to the [edit class-of-service interface lo0.0] hierarchy

C. Apply the DSCP code-point in an egress policer.

D. Apply the DSCP code-point to a rewrite rule.

Answer(s): A

9. Click the Exhibit button.

```
user@router-> show log ospf-trace.log
Oct 8 16:20:26.812781 OSPF packet ignored: no matching interface from
192.168.0.2, IFL 75
Oct 8 16:20:26.812804 Received OSPF packet of type and wire_length 1, 60
Oct 8 16:20:26.812807 OSPF rcvd Hello 192.168.0.2 -> 224.0.0.5 (ge-0/0/2.0
IFL 73 area 0.0.0.1)
Oct 8 16:20:26.812809   Version 2, length 48, ID 172.29.0.5, area 0.0.0.1
Oct 8 16:20:26.812810   checksum 0x0, authtype 0
Oct 8 16:20:26.812812   mask 255.255.255.252, hello_ivl 10, opts 0x18, prio
128
Oct 8 16:20:26.812814   dead_ivl 40, DR 192.168.0.2, BDR 0.0.0.0
Oct 8 16:20:26.812816   OSPF restart signaling: Received hello with LLS data
from nbr ip=192.168.0.2 id=172.29.0.5
Oct 8 16:20:26.812818 OSPF packet ignored: configuration mismatch from
192.168.0.2 on intf ge-0/0/2.0 area 0.0.0.1
Oct 8 16:20:26.812831 OSPF packet ignored: no matching interface from
192.168.0.2, IFL 72
Oct 8 16:20:30.520194 OSPF periodic xmit from 192.168.0.1 to 224.0.0.5 (IFL
73 area 0.0.0.1)
Oct 8 16:20:30.520546 OSPF packet ignored: no matching interface from
192.168.0.1, IFL 75
Oct 8 16:20:30.520561 OSPF packet ignored: no matching interface from
192.168.0.1, IFL 72
Oct 8 16:20:36.114424 OSPF packet ignored: no matching interface from
192.168.0.2, IFL 75
Oct 8 16:20:36.114447 Received OSPF packet of type and wire_length 1, 60
Oct 8 16:20:36.114449 OSPF rcvd Hello 192.168.0.2 -> 224.0.0.5 (ge-0/0/2.0
IFL 73 area 0.0.0.1)
Oct 8 16:20:36.114451   Version 2, length 48, ID 172.29.0.5, area 0.0.0.1
Oct 8 16:20:36.114452    checksum 0x0, authtype 0
Oct 8 16:20:36.114454   mask 255.255.255.252, hello_ivl 10, opts 0x18, prio
128
Oct 8 16:20:36.114455   dead_ivl 40, DR 192.168.0.2, BDR 0.0.0.0
Oct 8 16:20:36.114458   OSPF restart signaling: Received hello with LLS data
from nbr ip=192.168.0.2 id=172.29.0.5.
Oct 8 16:20:36.114460 OSPF packet ignored: configuration mismatch from
192.168.0.2 on intf ge-0/0/2.0 area 0.0.0.1
```

A router is attempting to form an OSPF neighborship with another router. However, the OSPF neighborship fails to establish completely.
Referring to the exhibit, what is the problem?

A. There is an interface type mismatch.

B. There is an interface subnet mask mismatch.

C. There is an OSPF area mismatch.

D. There is an interface MTU mismatch.

Answer(s): A

---

10. You are currently using VLAN IDs 2 through 300 within your Layer 2 domain and you need to configure VSTP to prevent loops. You must ensure that all VLANs are loop free.
In this scenario, which statement is correct?

A. You must ensure that the VLANs are balanced between two different root bridges.

B. You must enable RSTP to account for all VLANs.

C. You must ensure that the bridge priority is set to the lowest value on all switches in the Layer 2 domain.

D. You must enable all VLANs, 2 through 300, under the VSTP configuration.

Answer(s): D

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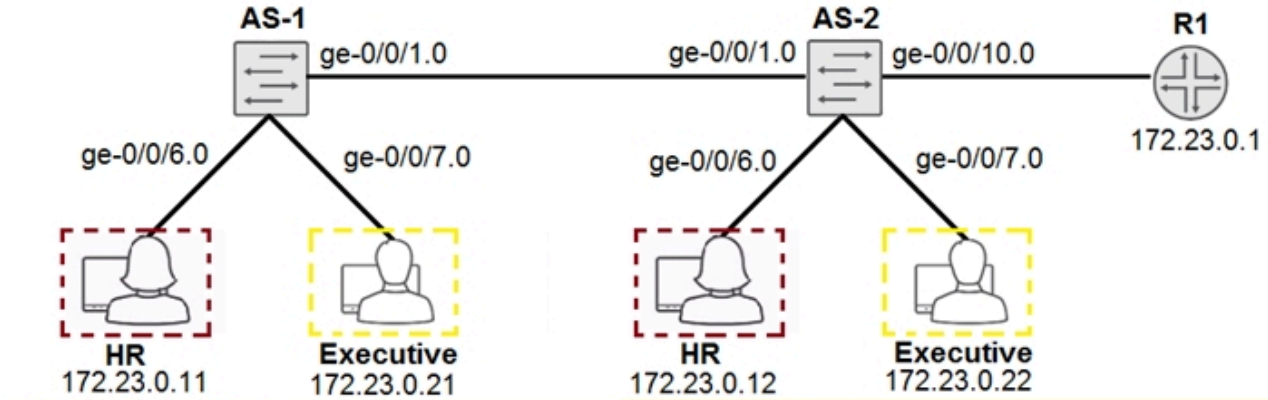
11. What are two supported PoE management modes? (Choose two.)

- [ ] A. class
- [ ] B. standalone
- [ ] C. static
- [ ] D. mixed

Answer(s): A C

---

12. Click the Exhibit button.




```
[edit interfaces]
user@AS-1# show
ge-0/0/1 {
     unit 0 {
          family ethernet-switching {
               interface-mode trunk;
               vlan {
                    members-vlan-pri
               }
          }
     }
}
ge-0/0/6 {
     unit 0 {
          family ethernet-switching {
          interface-mode access;
          vlan {
               members hr;
               }
          }
     }
}
ge-0/0/7 {
   unit 0 {
        family ethernet-switching {
             interface-mode access;
             vlan {
                  members executive;
                }
            }
       }
  }
   [edit vlans]
   user@AS-1# show vlan
   vlan-pri {
        vlan-id 100;
        community-vlans [ executive hr ];
   }
   executive {
        vlan-id 20;
        private-vlan community;
   }
   hr {
        vlan-id 10;
        private-vlan community;
   }
```

```
[edit interfaces]
user@AS-2# show
ge-0/0/1 {
     unit 0 {
          family ethernet-switching {
               interface-mode trunk;
               vlan {
                    members-vlan-pri
               }
          }
     }
}
ge-0/0/6 {
     unit 0 {
          family ethernet-switching {
          interface-mode access;
          vlan {
               members hr;
               }
          }
     }
}
ge-0/0/7 {
   unit 0 {
     family ethernet-switching {
          interface-mode access;
          vlan      {
                    members executive;
                    }
               }
            }
          }
          ge-0/0/10 {
             unit 0 {
               family ethernet-switching {
                    interface-mode turnk;
                    vlan {
                         members vlan-pri;
                    }
               }
            }
          }

          [edit vlans]
          user@AS-2# show vlan
          vlan-pri {
               vlan-id 100;
               community-vlans [ executive hr ];
      }
      executive {
           vlan-id 20;
           private-vlan community;
      }
      hr {
           vlan-id 10;
           private-vlan community;
      }
```

You recently implemented the configuration shown in the exhibit. After committing these changes, the community devices connected to AS-1 are not able to communicate with the appropriate community devices connected to AS-2.
What must be done to allow these community devices to communicate?

A. You must configure an isolation VLAN ID under the vlan-pri VLAN on the AS-2 switch.

B. You must configure the ge-0/0/10 interface on AS-1 as the inter-switch link

C. You must configure the ge-0/0/1 interface on both switches as the inter-switch links.

D. You must configure an isolation VLAN ID under the vlan-pri VLAN on both switches.

Answer(s): C

---

13. Click the Exhibit button.

```
[edit]
uer@router# show policy-options
prefix-list known-ok-sites {
     10.10.0.0/16;
     12.233.0.0/18;
     172.16.0.0/24;
     192.168.12.0/24;
}

prefix-list known-dir-bcast-sites {
     10.2.0.0/16;
     12.233.45.0/24;
     172.16.0.3/32;
     192.168.1.0/24;

}
policy-statement prefix-list-policy {
     term 1 {
          from {
               prefix-list known-ok-sites;
          }
          then accept;
     }
     term 2 {
          from {
               prefix-list known-dir-bcast-sites;
           }
           then reject;
         }
         term 3 {
             from {
                route-filter 12.233.45.5/32 exact;
             }
             then next policy;
         }
    }
```

The policy shown in the exhibit is applied as an export policy to your BGP neighborship. Which action will be taken for route 12.233.45.5?

A. It will rejected by term 2.

B. It will be accepted by term 1.

C. It will be accepted by the default policy.

D. It will be evaluated by the next policy.

Answer(s): B

---

14. Which two statements are correct about a functional ESI LAG interface? (Choose two.)

- [ ] A. The LACP system ID must be the same.
- [ ] B. The ESI values must be the same.
- [ ] C. The LACP system ID must be different.
- [ ] D. The ESI values must be different.

Answer(s): A B

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15. You notice a mass withdrawal of routes for some of the network hosts. You determine that the link on the ESI interface is down. Which route type is used in this scenario?

A. Type 2

B. Type 3

C. Type 1

D. Type 5

Answer(s): C

---

16. You have an MX960 configured as a Fusion aggregation device (AD) and two QFX5100 switches as satellite devices (SD). You have configured local-switching for each SD. A packet with an unknown MAC address is received on one of the SD extended ports.
Which statement is correct in this scenario?

A. The packet is dropped and a reject message is sent out to the port where it was received.

B. The packet is silently discarded and a reject message is sent to the AD.

C. The packet is flooded out of all the ports on the SD except the one where it was received.

D. The packet is sent to the AD to be processed and forwarded.

Answer(s): D

---

17. When configuring class of service, what would you use to allocate bandwidth to a forwarding class?

A. buffer depth

B. transmit rate

C. bandwidth

D. speed

Answer(s): B

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18. You are using 802.1X in your access network consisting of EX Series switches. You recently had a failure with your RADIUS server which resulted in authenticating client devices being denied access to the network. You want to change this behavior so that authenticating clients are directed to a remediation VLAN. Which RADIUS server failback setting satisfies this requirement?

A. permit

B. move

C. sustain

D. deny

Answer(s): B

---

19. You have configured class mode power management on an EX4300 to provide PoE power to telephone and security camera equipment. You want to ensure that security camera power takes priority over telephone power.
Which two actions would solve this problem? (Choose two.)

- [ ] A. Connect the security cameras to the lowest port numbers on the switch.
- [ ] B. Set the power priority to high on ports connected to security cameras.
- [ ] C. Set the maximum power settings on ports connected to security cameras.
- [ ] D. Set the power priority to low on ports connected to security cameras.

Answer(s): A B

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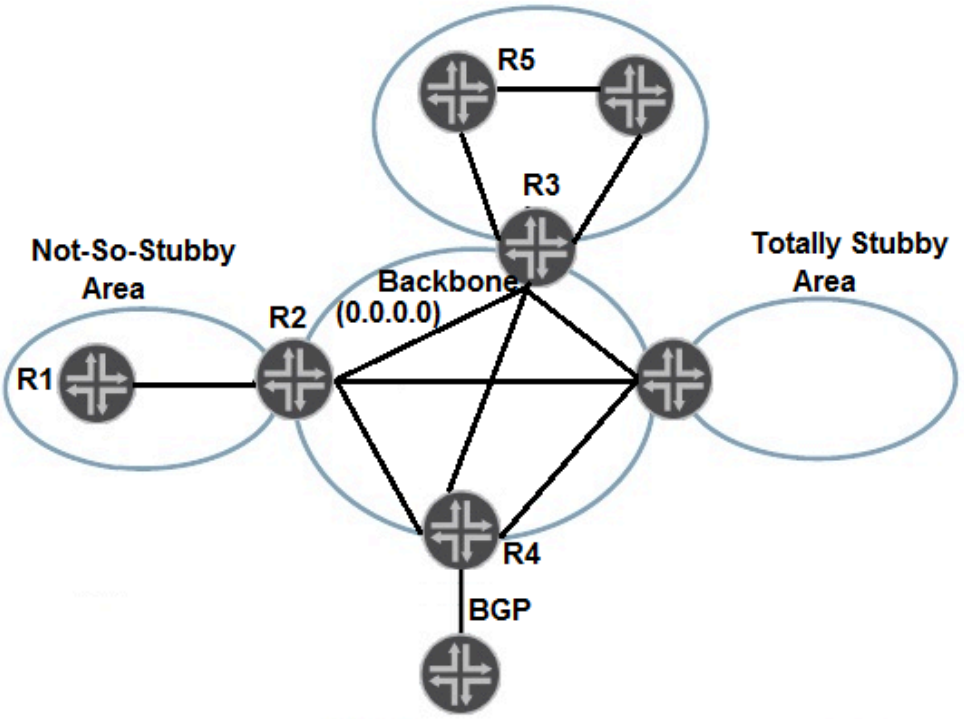
20. Click the Exhibit button.



Referring to the exhibit, how is R5 able to learn the networks that exist within the NSSA?

A. R5 learns those networks from Type 3 LSAs advertised by R2.

B. R5 learns those networks from Type 3 LSAs advertised by R3.

C. R5 does not learn those networks and uses a default route advertised by R3 instead.

D. R5 does not learn those networks but uses a default route advertised by R2 instead.

Answer(s): D
