JN0-649 Q&As

Enterprise Routing and Switching Professional (JNCIP-ENT)

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QUESTION 1

Referring to the exhibit, which two statements are correct? (Choose two.)

```
user@switch> show poe interface
Interface    Admin       Oper    Max        Priority       Power          Class
             status      status  power                      consumption
 ge-0/0/0    Enabled     OFF     15.4W      Low            0.0W           not-applicable
 ge-0/0/1    Enabled     OFF     15.4W      Low            0.0W           not-applicable
 ge-0/0/2    Enabled     OFF     15.4W      Low            0.0W           not-applicable
 ge-0/0/3    Enabled     OFF     15.4W      Low            0.0W           not-applicable
 ge-0/0/4    Enabled     OFF     15.4W      Low            0.0W           not-applicable
 ge-0/0/5    Enabled     OFF     15.4W      Low            0.0W           not-applicable
 ge-0/0/6    Enabled     OFF     15.4W      Low            0.0W           not-applicable
 ge-0/0/7    Enabled     OFF     15.4W      Low            0.0W           not-applicable
 ge-0/0/8    Enabled     OFF     15.4W      Low            0.0W           not-applicable
 ge-0/0/9    Enabled     OFF     15.4W      Low            0.0W           not-applicable
ge-0/0/10    Enabled      ON     25.4W(L)   Low            11.0W           4
ge-0/0/11    Enabled      ON     25.4W(L)   High           11.4W           4
  (L) LLDP-negotiated value on the port.
user@switch> show poe controller
Controller  Maximum   Power         Guard    Management   Status        Lldp
index       power     consumption   band                               Priority
   0        100.00W   22.40W         10W     Class        AT_MODE       Disabled
```

A. The maximumwattage that this switch can allocate to attached Ethernet devices is 100 watts.

B. If the total power consumption exceeds 90 watts, the ge-0/0/11 interface will continue to receive power.

C. PoE is not enabled on the ge-0/0/0 interface.

D. The ge-0/0/10 interface supports PoE+.

Correct Answer: AD

POE is enabled in the interface ge-0/0/0 but nothing is connected to it. switch is in AT mode (poe+) and interface ge-0/0/11 supports poe+ judging by maximun wattage

QUESTION 2

A modified deficit round-robin scheduler is defined by which three variables? (Choose three.)

A. priority

B. WRED

C. transmit rate

D. Layer 3 fields

E. buffer size

Correct Answer: ABC

QUESTION 3

Referring to the exhibit, which two statements are correct? (Choose two.)

```
user@DS-1> show spanning-tree interface
Spanning tree interface parameters for VLAN 10
Interface     Port ID    Designated      Designated          Port    State  Role
                          port ID         bridge ID           Cost
ge-0/0/7.0    128:521      128:521   4106.0019e25173c0      20000  FWD    DESG
ge-0/0/8.0    128:523      128:523   4106.0019e25173c0      20000  FWD    DESG
ge-0/0/9.0    128:525      128:525   4106.0019e25173c0      20000  FWD    DESG
…
Spanning tree interface parameters for VLAN 20
Interface     Port ID    Designated      Designated          Port    State  Role
                          port ID         bridge ID           Cost
ge-0/0/7.0    128:521      128:523   4116.0019e2551d40      20000  BLK    ALT
ge-0/0/8.0    128:523      128:521   4116.0019e2551d40      20000  FWD   ROOT
ge-0/0/9.0    128:525      128:525   4116.0019e2551d40      20000  BLK    ALT
```

A. BPDUs from the root bridge for VLAN 10 have been received on the ge-0/0/7.0 interface.

B. DS-1 is the root bridge for VLAN 10.

C. BPDUs fromthe root bridge for VLAN 20 have been received on the ge-0/0/7.0 interface.

D. Default VSTP bridge priority values are configured.

Correct Answer: AC

QUESTION 4

Referring to the exhibit,traffic ingresses on interface ge-0/0/3 and egresses on interface ge- 0/0/4. Which queue does traffic with the IP precedence value of 100 use?

```
[edit interfaces]
user@router# show
ge-0/0/3 {
    unit 0 {
        family inet {
            address 10.42.67.1/30;
        }
    }
}
ge-0/0/4 {
    unit 0 {
        family inet {
            filter {
                input cos;
            }
            address 10.42.16.1/30;
        }
    }
}
[edit class-of-service]
user@router# show
classifiers {
    inet-precedence cos {
        forwarding-class best-effort {
            loss-priority low code-points [ 000 001 010 011 ];
        }
        forwarding-class assured-forwarding {
            loss-priority low code-points 101;
```

```
user@router# show
classifiers {
    inet-precedence cos {
        forwarding-class best-effort {
            loss-priority low code-points [ 000 001 010 011 ];
        }
        forwarding-class assured-forwarding {
            loss-priority low code-points 101;
        }
        forwarding-class expedited-forwarding {
            loss-priority low code-points 100;
        }
        forwarding-class network-control {
            loss-priority low code-points [ 110 111 ];
        }
    }
}
```

```
forwarding-classes {
    queue 0 best-effort;
    queue 1 expedited-forwarding;
    queue 2 assured-forwarding;
    queue 3 network-control;
}
interfaces {
    ge-* {
        unit * {
            classifiers {
                inet-precedence default;
            }
        }
    }
    ge-0/0/4 {
        unit 0 {
            classifiers {
                inet-precedence cos;
            }
        }
    }
}
[edit firewall family inet]
user@router# show
filter cos {
    term 1 {
        from {
            precedence [ 0 2 5 ];
        }
        then {
            forwarding-class best-effort;
            accept;
        }
    }
    term 2 {
        from {
            precedence [ 1 4 ];
        }
        then {
        forwarding-class assured-forwarding;
        accept;
    }
}
```

```
term 3 {
    from {
        precedence 3;
    }
    then {
        forwarding-class expedited-forwarding;
        accept;
    }
}
term 4 {
    from {
        precedence [ 6 7 ];
    }
    then {
        forwarding-class network-control;
        accept;
    }

    }
}
[edit class-of-service]
user@router# run show class-of-service classifier name ipprec-default
Classifier: ipprec-default, Code point type: inet-precedence, Index: 12
  Code point          Forwarding class                    Loss priority
  000                 best-effort                         low
  001                 assured-forwarding                  low
  010                 best-effort                         low
  011                 best-effort                         low
  100                 best-effort                         low
  101                 expedited-forwarding                low
  110                 network-control                     low
  111                 network-control                     high
```

A. network-control

B. assured-forwarding

C. best-effort

D. expedited-forwarding

Correct Answer: D

QUESTION 5

You are asked to enforce user authentication using a captive portal before users access the corporate network. Which statement is correct in this scenario?

A. HTTPS is the default protocol for a captive portal.

B. A captive portal can be bypassed using anallowlist command containing a device\\'s IP address.

C. When enabled, a captive portal must be applied to each individual interface.

D. All Web browser requests are redirected to the captive portal until authentication is successful.

Correct Answer: D

You can set up captive portal authentication on your switch to redirect all Web browser requests to a login page that requires users to input a username and password before they are allowed access. Upon successful authentication, users are allowed access to the network and redirected to the original page requested. Junos OS provides a customizable template for the captive portal window that allows you to easily design and modify the look of the captive portal login page. You can modify the design elements of the template to change the look of your captive portal login page and to add instructions or information to the page. You can also modify any of the design elements of a captive portal login page. The first screen displayed before the captive login page requires the user to read the terms and conditions of use. By clicking the Agree button, the user can access the captive portal login page.https://www.juniper.net/documentation/us/en/software/junos/user-access/topics/topic-map/user-authentication-captive-portal.html

QUESTION 6

Referring to the exhibit, which statement is correct?

```
user@router> show route protocol bgp
inet.0: 562 destinations, 565 routes (558 active, 0 holddown, 5 hidden)
+ = Active Route, - = Last Active, * = Both
203.0.113.0/24          *[BGP/170] 1w3d 05:14:15, localpref 100, from 192.168.10.36
                          AS path: I, validation-state: unverified
                        > to 10.23.23.2 via ae8.0
                          to 10.1.23.2 via ae7.0
                        *[BGP/170] 1w3d 05:14:15, localpref 100, from 192.168.10.36
                          AS path: I, validation-state: unverified
                        > to 10.23.23.2 via ae8.0
...
```

A. The route is learned from a multihop BGP session.

B. The route is learned from only one neighbor.

C. The route is learned from a multipath BGP session.

D. The route is learned from three different neighbors.

Correct Answer: B

QUESTION 7

Your enterprise network uses routing instances to support multitenancy. Your Junos devices use BGP to peer to multiple BGP devices. You must ensure that load balancing is achieved within the routing instance. Which two statements would accomplish this task? (Choose two.)

A. Configure the multipath option at the [edit protocols bgp group neighbor] hierarchy.

B. Configure the multipath option at the [edit protocols bgp group] hierarchy.

C. Configure a load-balance per-packet policy and apply it at the [edit routing-options forwarding-table] hierarchy.

D. Configure the multipath option at the [edit routing-instances routing-options] hierarchy.

Correct Answer: BC

Fortunately, the Juniper Networks BGP implementation supports the notion of a bandwidth community. This extended community encodes the bandwidth of a given next hop, and when combined with multipath, the load-balancing algorithm distributes flows across the set of next hops proportional to their relative bandwidths. Put another way, if you have a 10-Mbps and a 1-Mbps next hop, on average nine flows will map to the high-speed next hop for every one that uses the low speed.

Use of BGP bandwidth community is supported only with per-packet load balancing.

The configuration task has two parts:

Configure the external BGP (EBGP) peering sessions, enable multipath, and define an import policy to tag routes with a bandwidth community that reflects link speed.

Enable per-packet (really per-flow) load balancing for optimal distribution of traffic.

https://www.juniper.net/documentation/us/en/software/junos/bgp/topics/topic-map/load-balancing-bgp-session.html

QUESTION 8

Which statement is correct about IS-IS?

A. IS-IS uses areas and an autonomous system.

B. Level 1/2 routers automatically inject a default route to the nearest Level 1 router.

C. Level 2 routers must share the same area address.

D. Level 1 routers route traffic between autonomous systems.

Correct Answer: A

Level 1/2 routers automatically inject a default route to the nearest Level 1 router. It\\'s the other way around

QUESTION 9

A Layer 2 connection does not expend across data centers. The IP subnet in a Layer 2 domain is confined within a single data center. Which EVPN route type is used to communicate prefixes between the data centers?

A. Type 1

B. Type 2

C. Type 4

D. Type 5

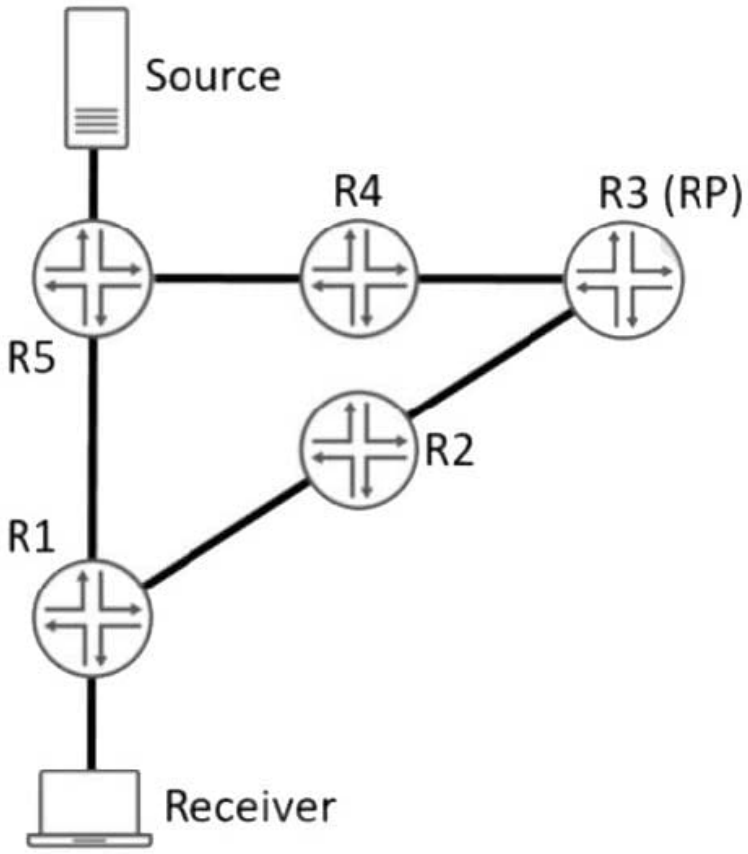
Correct Answer: D

https://www.juniper.net/documentation/us/en/software/junos/evpn-vxlan/topics/concept/evpn-route-type5-understanding.html#:~:text=In%20the%20control%20plane%2C%20EVPN,subnet%20connectivity%20across%20data%20centers.

QUESTION 10

Referring to the exhibit, a PIM-SM network is set up to enable communication between multicast devices.

Which two statements are true? (Choose two.)



A. Before the formation of the rendezvous-point tree, a join message is sent from R1 to R3.

B. Before theformation of the rendezvous-point tree, an IGMP is sent from the Receiver to R1.

C. Before the formation of the rendezvous-point tree, an IGMP is sent from the Source to R5.

D. Before the formation of the rendezvous-point tree, a join message is sent from R1 to R5.

Correct Answer: BC

QUESTION 11

You aredeploying IP phones in your enterprise networks. When plugged in, the IP phones must automatically negotiate the power requirements for the new connection with the EX Series switches. In this scenario, which protocol should be used to enable this behavior?

A. CDP

B. MP-BGP

C. LLDP-MED

D. LLDP

Correct Answer: C

QUESTION 12

You enable the Multiple VLAN Registration Protocol (MVRP) to automate the creation and management of virtual LANs.

Which statement is correct in thisscenario?

A. The forbidden mode does not register or declare VLANs.

B. When enabled, MVRP affects all interfaces.

C. Timers dictate when link state changes are propagated.

D. MVRP works with RSTP and VSTP.

Correct Answer: A

The forbidden mode does not register or declare VLANs. You can change the registration mode of a specific interface to forbidden. An interface in forbidden registration mode does not participate in MVRP even if MVRP is enabled on the switch. https://www.juniper.net/documentation/us/en/software/junos/multicast-l2/topics/topic-map/mvrp.html MVRP is disabled by default on the switches and, when enabled, affects only trunk interfaces. Once you enable MVRP, all VLAN interfaces on the switch belong to MVRP (the default normal registration mode) and those interfaces accept PDU messages and send their own PDU messages. forbidden--The interface does not register or declare VLANS (except statically configured VLANs).

QUESTION 13

When using wide metrics, which two statements about route advertisement between IS-IS levels are correct? (Choose two.)

A. Level 1 and Level 2 routers do not advertise Level 2 routes into the Level 1 area by default.

B. Level 1 routes are advertised to Level 2 routers by default.

C. If wide-metrics-only is configured, Level 1 routes are not advertised to Level 2 routers by default.

D. Level 1 routes advertised as external routes into Level 1 are not advertised to any Level 2 routers by default.

Correct Answer: AC

QUESTION 14

You are using 802.1X authentication in your network to secure all ports. You have a printer that does not support 802.1X and you must ensure that traffic is allowed to and from this printer without authentication. In this scenario, what will satisfy the requirement?

A. MAC filtering

B. MACsec

C. static MAC bypass

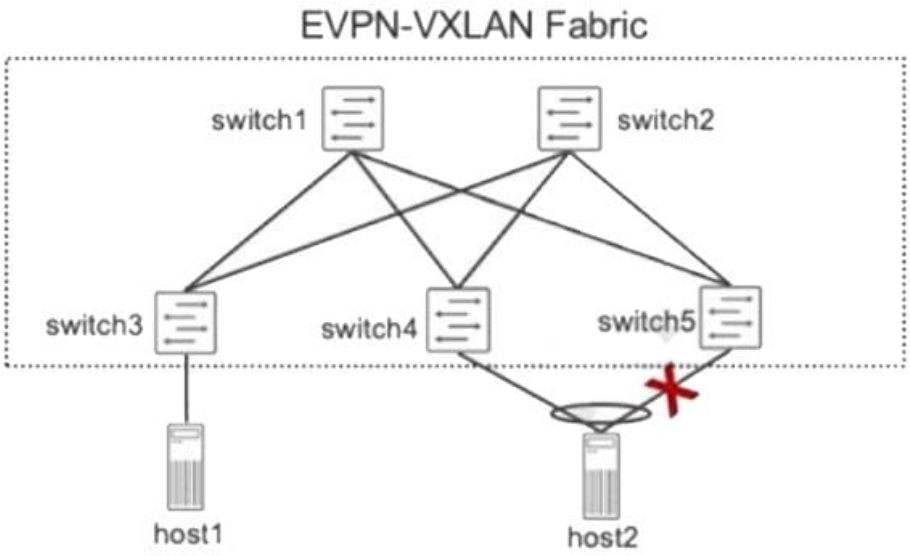
D. MAC RADIUS

Correct Answer: C

https://www.juniper.net/documentation/us/en/software/junos/user-access/topics/topic-map/static-mac-bypass-mac-radius-authentication.html

QUESTION 15

Referring to the exhibit, which statement is correct when a failure exists on the link between host2 and switch5 on this EVPN-VXLAN fabric?



A. The switch5 device will send a Type 2route to all peers.

B. The switch5 device will send a Type 4 route to all peers.

C. The switch5 device will send a Type 1 route to all peers.

D. The switch5 device will send a Type 3 route to all peers.

Correct Answer: D