Implementing and Operating Cisco Data Center Core Technologies

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Question 1

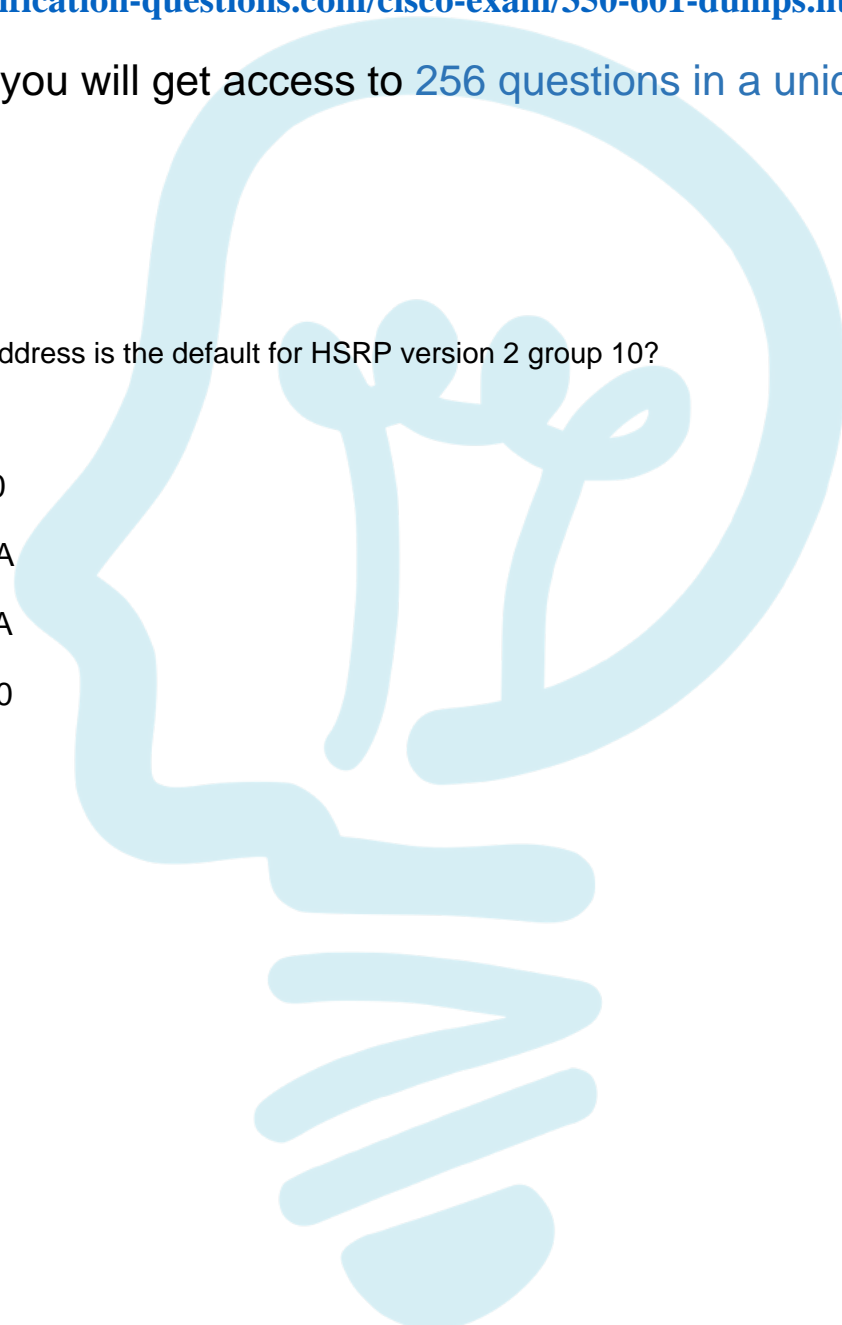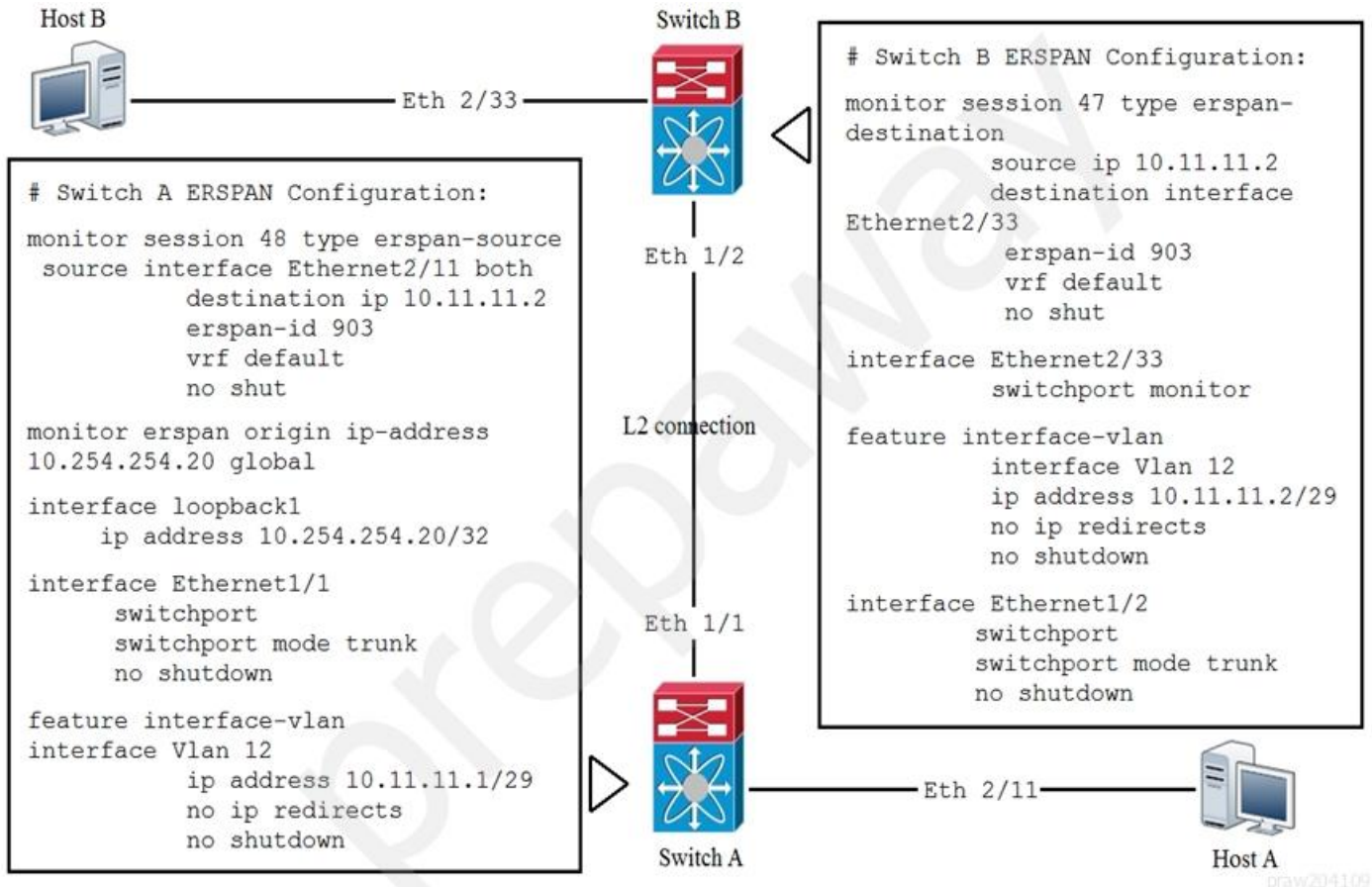Which virtual MAC address is the default for HSRP version 2 group 10?

Options:

A. 0000.5E00.0110

B. 0000.0C9F.F00A

C. 3784.0898.1C0A

D. 0000.0C9F.F010

Answer: B

Question 2

Refer to the exhibit.

Host B

Switch B

— Eth 2/33 —

```
# Switch B ERSPAN Configuration:
monitor session 47 type erspan-
destination
            source ip 10.11.11.2
            destination interface
Ethernet2/33
            erspan-id 903
            vrf default
            no shut

interface Ethernet2/33
            switchport monitor

feature interface-vlan
            interface Vlan 12
            ip address 10.11.11.2/29
            no ip redirects
            no shutdown

interface Ethernet1/2
            switchport
            switchport mode trunk
            no shutdown
```

```
# Switch A ERSPAN Configuration:
monitor session 48 type erspan-source
  source interface Ethernet2/11 both
            destination ip 10.11.11.2
            erspan-id 903
            vrf default
            no shut
monitor erspan origin ip-address
10.254.254.20 global
interface loopback1
      ip address 10.254.254.20/32

interface Ethernet1/1
      switchport
      switchport mode trunk
      no shutdown

feature interface-vlan
interface Vlan 12
            ip address 10.11.11.1/29
            no ip redirects
            no shutdown
```

Eth 1/2

L2 connection

Eth 1/1

— Eth 2/11 —

Switch A

Host A

Which statement about the ERSPAN configuration in this environment is true?

Options:

A. The session number of the source of ERSPAN spanned traffic must have a session ID of 47 for the traffic analyzer to receive the traffic.

B. Host B is the source of ERSPAN spanned traffic and host A is the traffic analyzer.

C. The session number of the source of ERSPAN spanned traffic must have a session ID of 48 for the traffic analyzer to receive the traffic.

D. Host A is the source of ERSPAN spanned traffic and host B is the traffic analyzer.

Answer: D

Question 3

Refer to the exhibit.

```
ACI-Leaf1# show ip route vrf DATACENTER:DC
10.20.1.0/24, ubest/mbest: 1/0, attached, direct, pervasive
   *via 10.0.8.65%overlay-1, [1/0], 4w3d, static
172.16.100.0/24, ubest/mbest: 1/0
   *via 10.1.168.95%overlay-1, [200/5], 3wod, bgp-132, internal, tag 132 (mpls-vpn)
172.16.99.0/24, ubest/mbest: 1/0
   *via 10.0.1.14, [20/0], 3wod, bgp-132, external, tag 200
```

Which two statements about the routing table of the leaf switch are true? (Choose two.)

Options:

A. 10.20.1.0/24 is a BD subnet in ACI.

B. The next hop 10.0.1.14 for route 172.16.99.0/24 is the TEP address of a border leaf in ACI.

C. 172.16.100.0/24 is a BD subnet in ACI.

D. The next hop 10.1.168.95 for route 172.16.100.0/24 is the TEP address of a border leaf in ACI.

E. The next hop 10.0.8.65 for route 10.20.1.0/24 is the TEP address of a border leaf in ACI.

Answer: A, E

Question 4
Which mroute state is created when Bidirectional PIM is deployed at a site?

Options:

A. *,G

B. MVPN Type-6

C. MVPN Type-7

D. S,G

Answer: A

Question 5

Refer to the exhibit.

```
N7K-1
interface Vlan165
  no shutdown
  no ip redirects
  ip address 10.16.165.2/27
  no ipv6 redirects
  hsrp version 2
  hsrp 165
    preempt
    priority 150
    ip 10.16.165.1

vpc domain 100
  role priority 100
  peer-keepalive destination 10.1.1.2 source 10.1.1.1
vrf default
  delay restore 60
  peer-gateway
  auto-recovery
  ip arp synchronize

N7K-2
interface Vlan165
  no shutdown
  no ip redirects
  ip address 10.16.165.3/27
  no ipv6 redirects
  hsrp version 2
  hsrp 165
    priority 50
    ip 10.16.165.1

vpc domain 100
  role priority 200
  peer-keepalive destination 10.1.1.1 source 10.1.1 2
vrf default
  delay restore 60
  peer-gateway
  auto-recovery
  ip arp synchronize
```

Which statement about the default gateway configuration of the vPC is true?

Options:

A. Either switch can act as the active default gateway.

B. N7K-1 acts as the default gateway for all traffic.

C. N7K-2 forwards traffic that is destined for the default gateway by using the peer link.

D. N7K-2 acts as the default gateway for all traffic.

Answer: A

Question 6

Refer to the exhibit.

```
Start time: Mon Apr 15 09:23:01 2019
Last election time: Mon Apr 15 09:24:24 2019
A: UP, PRIMARY
B: UP, SUBORDINATE
A: memb state UP, lead state PRIMARY, mgmt services state: UP
B: memb state UP, lead state SUBORDINATE, mgmt services state: UP
heartbeat state PRIMARY_OK
INTERNAL NETWORK INTERFACES:
ethl, UP
eth2, UP
HA NOT READY
No device connected to this Fabric Interconnect
```

What must be connected to clear the HA NOT READY status?

Options:

A. Layer 1-Layer 2 ports

B. server chassis

C. management ports

D. network uplinks

Answer: B

Question 7

A small remote office is set to connect to the regional hub site via NSSA ASBR.

Which type of LSA is sent to the remote office OSPF area?

Options:

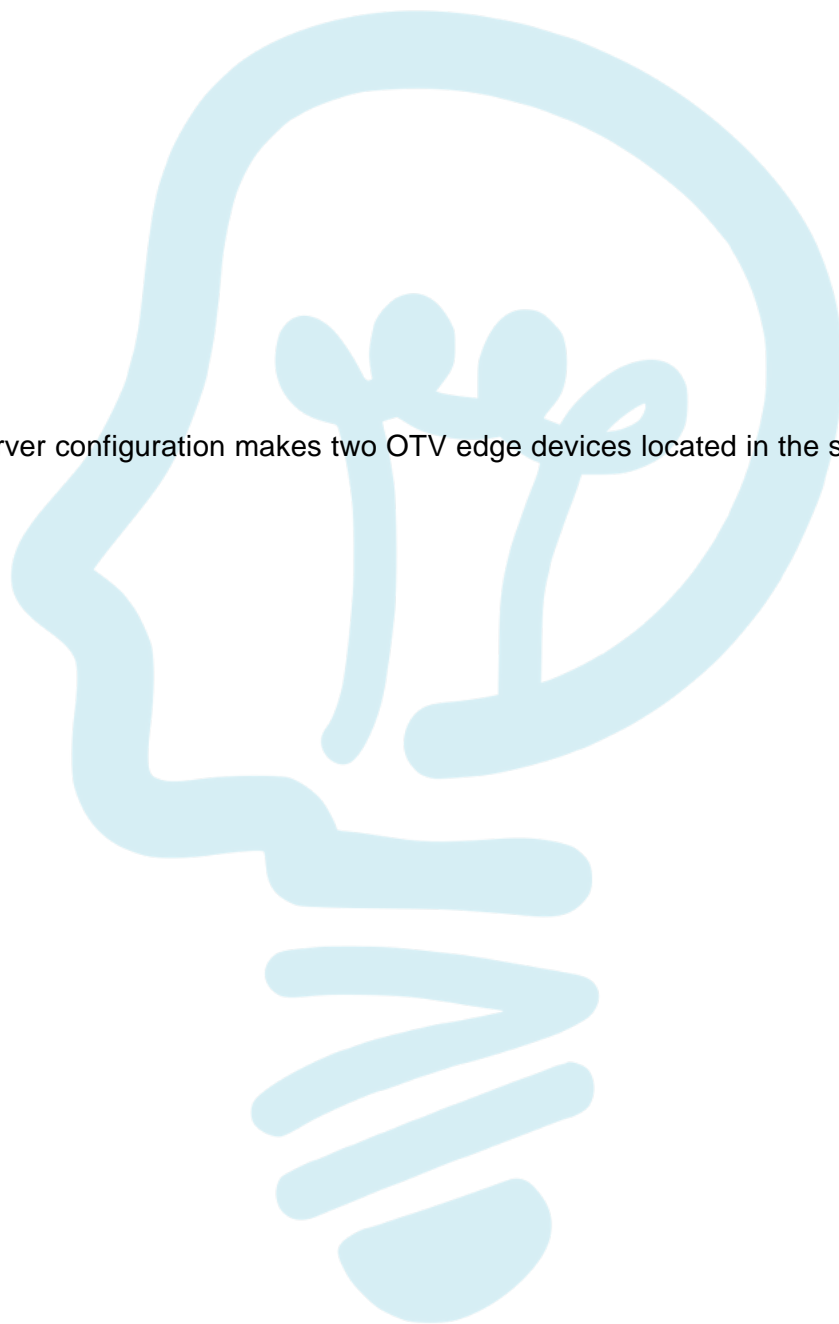A. type 7 LSA

B. type 1 LSA

C. type 5 LSA

D. type 3 LSA

Answer: A

Question 8

Which adjacency server configuration makes two OTV edge devices located in the same site bring up the dual-site adjacency?

Options:

A.

Nexus-1:

```
interface Ethernet1/2
  ip address 20.1.1.1/24

interface Overlay200
  otv use-adjacency-server 20.1.1.2 unicast-only
  otv join-interface Ethernet1/2
```

Nexus-2:

```
interface Ethernet1/2
  ip address 20.1.1.2/24

interface Overlay200
  otv use-adjacency-server 20.1.1.1 unicast-only
  otv join-interface Ethernet1/2
```

B.

Nexus-1:

interface Ethernet1/2
  ip address 20.1.1.1/24

interface Overlay200
  otv adjacency-server unicast-only
  otv join-interface Ethernet1/2

Nexus-2:

interface Ethernet1/2
  ip address 20.1.1.2/24

interface Overlay200
  otv join-interface Ethernet1/2
  otv adjacency-server unicast-only
  otv use-adjacency-server 20.1.1.1 unicast-only

C.

Nexus-1:

interface Ethernet1/2
ip address 20.1.1.1/24

interface Overlay200
otv adjacency-server unicast-only
otv join-interface Ethernet1/2

Nexus-2:

interface Ethernet1/2
ip address 20.1.1.2/24

interface Overlay200
otv adjacency-server unicast-only
otv join-interface Ethernet1/2

D.

Nexus-1:

```
interface Ethernet1/2
  ip address 20.1.1.1/24

interface Overlay200
  otv use-adjacency-server 20.1.1.1 unicast-only
  otv adjacency-server unicast-only
  otv join-interface Ethernet1/2
```

Nexus-2:

```
interface Ethernet1/2
  ip address 20.1.1.2/24

interface Overlay200
  otv use-adjacency-server 20.1.1.2 unicast-only
  otv adjacency-server unicast-only
  otv join-interface Ethernet1/2
```

Answer: B

Question 9

Refer to the exhibit.

```
N7K-1
spanning-tree vlan 1-10 priority 8192

vpc domain 100
  role priority 100
  peer-keepalive destination 10.1.1.2 source 10.1.1.1
vrf default
  delay restore 60
  peer-switch
  auto-recovery
  ip arp synchronize

N7K-2
spanning-tree vlan 1-10 priority 8192

vpc domain 100
  role priority 200
  peer-keepalive destination 10.1.1.1 source 10.1.1.2
vrf default
  delay restore 60
  peer-switch
  auto-recovery
  ip arp synchronize
```

The STP priority of N7K-1 and N7K-2 are the lowest in the network.

Which statement describes STP on the vPC?

Options:

A. N7K-1 and N7K-2 appear as a single STP root.

B. N7K-1 appears as the STP root.

C. N7K-1 preempts N7K-2 as the STP root.

D. N7K-2 appears as the STP root.

Answer: A

Question 10

The engineer must configure SPAN on a Cisco Nexus 5000 Series Switch to get a capture of the traffic from these applications for an in-depth packet analysis.

Which two SPAN characteristics must be considered? (Choose two.)

Options:

A. SPAN source ports can be monitored in multiple SPAN sessions.

B. The Ethernet, FC, vFC, port channel, SAN port channel can be used as SPAN source ports.

C. A SPAN source port cannot be a destination SPAN port.

D. Only Ethernet, FC, vFC, port channel port types can be used as SPAN source ports.

E. The rx/tx option is available for VLAN or VSAN SPAN sessions.

Answer: B, C

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