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Exam : Cisco 642-811

Title : Building Cisco Multilayer Switched Networks(BCMSN)

1. Which is a valid multicast MAC address?

- A. 00-00-00-FA-11-67
- B. 01-00-E0-56-AE-3C
- C. 00-01-E0-A8-B2-C1
- D. 01-00-5E-0A-08-CF
- E. FF-FF-FF-FF-FF-FF

Answer: D

2. Examine the router output above. Which two items are correct? (Choose two.)

- A. Router A will assume the active state if its priority is the highest.
- B. If Ethernet 0/2 goes down, the standby router will take over.
- C. When Ethernet 0/3 of RouterA comes back up, the priority will become 105.
- D. The local IP address of Router A is 10.1.0.6.
- E. The local IP address of Router A is 10.1.0.20.

Answer: AC

3. What are three disadvantages of a router-on-a-stick configuration for InterVLAN routing? (Choose three.)

- A. InterVLAN routing cannot be filtered by the router.
- B. The router becomes a single point of failure for the network.
- C. Routers will not route STP BPDUs.
- D. There is a possibility of inadequate bandwidth for each VLAN.
- E. Additional overhead on the router can occur.
- F. NetFlow Switching is required for InterVLAN accounting.

Answer: BDE

4. Which two multicast IP addresses can be represented by the multicast MAC address 0100.5e0A.0A07? (Choose two.)

- A. 228.10.10.7
- B. 228.10.10.8
- C. 228.10.138.7
- D. 229.11.10.7
- E. 229.138.10.7
- F. 229.138.10.8

Answer: AE

5. Given the following configuration on a switch interface, what happens when a host with the MAC address of 0003.0003.0003 is directly connected to the switch port? switchport mode access switchport port-security switchport port-security maximum 2 switchport port-security mac-address 0002.0002.0002 switchport port-security violation shutdown

- A. The port will shut down.
- B. The host will be allowed to connect.
- C. The host will be refused access.

D. The host can only connect through a hub/switch where 0002.0002.0002 is already connected.

Answer: B

6. Which technology manages multicast traffic at Layer 2 by configuring Layer 2 LAN interfaces dynamically to forward multicast traffic only to those interfaces that want to receive it?

- A. IGMP
- B. IGMP snooping
- C. PIM-DM
- D. DVMRP
- E. MOSPF

Answer: B

7. Refer to the exhibit. Which set of commands contains the minimum number of commands necessary on the Cat_3550 switch for the host in VLAN 2 to be able to ping the host in VLAN 3?

- A. ip routing
- B. ip routing
router eigrp 1
network 10.0.0.0
- C. router eigrp 1
network 10.0.0.0
- D. ip routing
router eigrp 1
redistribute connected
network 10.0.0.0
network 200.1.1.0
no auto-summary
- E. ip routing
router eigrp 1
redistribute connected
network 10.0.0.0
no auto-summary

Answer: E

8. Which two statements are true about a switched virtual interface (SVI)? (Choose two.)

- A. An SVI is created by entering the no switchport command in interface configuration mode.
- B. An SVI is created for the default VLAN (VLAN1) to permit remote switch administration by default.
- C. An SVI provides a default gateway for a VLAN.
- D. Multiple SVIs can be associated with a VLAN.
- E. SVI is another name for a routed port.

Answer: BC

9. LAB

The information of the question

VTP Domain name : cisco

VLAN Ids 20 31

IP Addresses 172.16.71.1/24 172.16.132.1/24

These are your specific tasks:

1. Configure the VTP information with the distribution layer switch as the VTP server
2. Configure the VTP information with the access layer switch as a VTP client
3. Configure VLANs on the distribution layer switch
4. Configure inter-VLAN routing on the distribution layer switch
5. Specific VLAN port assignments will be made as users are added to the access layer switches in the future.
6. All VLANs and VTP configurations are to be completed in the global configuration. To configure the switch click on the host icon that is connected to the switch by way of a serial console cable.

Correct Answers:

vtp server configuration:

```
switch#conf t
```

```
switch(config)#vtp mode server
```

```
switch(config)#vtp domain CISCO
```

```
switch(config)#vlan 20
```

```
switch(config)#vlan 31
```

```
switch(config)#int vlan 20
```

```
switch(if-config)#ip add 172.64.20.1 255.255.255.0
```

```
switch(if-config)#no shut
```

```
switch(if-config)#int vlan 31
```

```
switch(if-config)#ip add 192.162.31.1 255.255.255.0
```

```
switch(if-config)#no shut
```

```
switch(if-config)#exit
```

```
switch#ip routing
```

```
switch#copy run start
```

vtp client configuration:

```
switch#conf t
```

```
switch(config)#vtp mode client
```

```
switch(config)#vtp domain CISCO
```

```
switch#copy run start
```

14. In the use of 802.1X access control, which three protocols are allowed through the switch port before authentication takes place? (Choose three.)

- A. STP
- B. CDP
- C. EAP MD5
- D. TACACS+
- E. EAP-over-LAN
- F. protocols not filtered by an ACL

Answer: ABE

10. Which three statements are true regarding the above diagram? (Choose three.)

- A. A trunk link will be formed.
- B. Only VLANs 1-1001 will travel across the trunk link.
- C. The native VLAN for Switch B is vlan 1.
- D. DTP is not running on Switch A.
- E. DTP packets are sent from Switch B.

Answer: ACE

11. Which two statements about the various implementations of STP are true? (Choose two.)

- A. Common Spanning Tree maintains a separate spanning-tree instance for each VLAN configured in the network.
- B. The Spanning Tree Protocol (STP) is an evolution of the IEEE 802.1w standard.
- C. Per-VLAN Spanning Tree (PVST) supports 802.1Q trunking.
- D. Per-VLAN Spanning Tree Plus(PVST+) is an enhancement to 802.1Q specification and is supported only on Cisco devices.
- E. Rapid Spanning Tree Protocol (RSTP) includes features equivalent to Cisco PortFast, UplinkFast, and BackboneFast for faster network reconvergence.
- F. Multiple Spanning Tree (MST) assumes one spanning-tree instance for the entire Layer 2 network, regardless of the multiple number of VLANs.

Answer: DE

12. Which spanning-tree feature will disable ports configured for PortFast in the event of a BPDU being received on those ports?

- A. BPDUGuard
- B. BPDU filtering
- C. UDLD
- D. Root Guard

Answer: A

13. Refer to the exhibit.

On the basis of the information provided in the exhibit, which two sets of procedures are best practices for Layer 2 and 3 failover alignment? (Choose two.)

- A. Configure the D-SW1 switch as the active HSRP router and the STP root for all VLANs. Configure the D-SW2 switch as the standby HSRP router and backup STP root for all VLANs.

- B. Configure the D-SW2 switch as the active HSRP router and the STP root for all VLANs. Configure the D-SW1 switch as the standby HSRP router and backup STP root for all VLANs.
- C. Configure the D-SW1 switch as the active HSRP router and the STP root for VLANs 11 and 110. Configure the D-SW2 switch as the active HSRP router and the STP root for VLANs 12 and 120.
- D. Configure the D-SW1 switch as the standby HSRP router and the backup STP root for VLANs 12 and 120. Configure the D-SW2 switch as the standby HSRP router and the backup STP root for VLANs 11 and 110.
- E. Configure the D-SW1 switch as the standby HSRP router and the STP root for VLANs 11 and 110. Configure the D-SW2 switch as the standby HSRP router and the STP root for VLANs 12 and 120.
- F. Configure the D-SW1 switch as the active HSRP router and the backup STP root for VLANs 11 and 110. Configure the D-SW2 switch as the active HSRP router and the backup STP root for VLANs 12 and 120.

Answer: CD

14. Refer to the above graphic. Switch A, the root bridge, is connected directly to Switch B over link L1 and to Switch C over link L2. The Layer 2 LAN interface on Switch C that is connected directly to Switch B is in the blocking state. If Switch C detects a link failure on the currently active link L2 on the root port, which spanning tree enhancement will allow Switch C to unblock the blocked port and transition it to forwarding without going through the listening and learning states?

- A. PortFast
- B. UplinkFast
- C. BackboneFast
- D. rapid spanning tree

Answer: B

15. Which three interface commands will configure the switch port to support a connected Cisco phone and to trust the CoS values received on the port if CDP discovers that a Cisco phone is attached? (Choose three.)

- A. mls qos trust override cos
- B. mls qos trust cos
- C. mls qos trust device cisco-phone
- D. switchport priority extend cos_value
- E. switchport voice vlan vlan-id

Answer: BCE

16. If there are two equal cost paths to the root switch, what is the next criterion to determine the root port?

- A. lowest time to receive BPDUs
- B. lowest port ID
- C. lowest sender bridge ID
- D. highest MAC address on the receiving port

Answer: C

17. In the use of 802.1X access control, which three protocols are allowed through the switch port before authentication takes place? (Choose three.)

- A. STP
- B. CDP
- C. EAP MD5
- D. TACACS+
- E. EAP-over-LAN
- F. protocols not filtered by an ACL

Answer: ABE

18. What action should a network administrator take to enable VTP pruning on an entire management domain?

- A. enable VTP pruning on any client switch in the domain
- B. enable VTP pruning on every switch in the domain
- C. enable VTP pruning on any switch in the management domain

D. enable VTP pruning on a VTP server in the management domain

Answer: D

19. A network is configured with VLANs 1 through 802.1 Q trunking is enabled between all switches. Currently, access ports for VLAN 3 exist only on Switch3 and Switch6. What must the administrator do to ensure that the other switches do not receive unnecessary broadcast packets for VLAN 3 while still allowing all other VLAN packets to cross?

A. Configure VTP pruning.

B. Configure Switch3 and Switch6 as transparent switches.

C. Configure Switch1, Switch2, Switch4 and Switch5 as transparent switches.

D. Nothing is required. Only Switch3 and Switch6 will receive VLAN3 packets by default.

Answer: A

20. Which statement is correct about 802.1Q trunking?

A. Both switches must be in the same VTP domain.

B. The encapsulation type on both ends of the trunk does not have to match.

C. The native VLAN on both ends of the trunk must be VLAN 1.

D. 802.1Q trunking can only be configured on a Layer 2 port.

E. In 802.1Q trunking, all VLAN packets are tagged on the trunk link, except the native VLAN.

Answer: E

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