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**Exam : 642-055**  
**Advanced Routing and Switching for**  
**Field Engineers Exam**

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### QUESTION 1:

Refer to the exhibit. In analyzing the configuration of the router, which three of these statements are correct? (Choose three.)

```
router bgp 12703
  no bgp default ipv4-unicast
  neighbor 172.16.32.14 remote-as 12703
  neighbor 172.16.32.15 remote-as 12703
  neighbor 172.16.32.27 remote-as 12703

  neighbor 172.16.32.14 activate
  neighbor 172.16.32.27 activate

address-family vpnv4
  neighbor 172.16.32.15 activate
  neighbor 172.16.32.27 activate
```

- A. Neighbor 172.16.32.15 will receive VPNv4 routes.
- B. Neighbor 172.16.32.15 will receive Internet routes.
- C. Neighbor 172.16.32.27 will receive VPNv4 routes.
- D. Neighbor 172.16.32.14 will receive both VPNv4 and Internet routes.
- E. Neighbor 172.16.32.14 will receive VPNv4 routes.
- F. Neighbor 172.16.32.27 will receive Internet routes.

Answer: A,C,F

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### QUESTION 2:

You are working with Itexamworld .com. who has identified the following IP applications on their network: IP voice and voice signaling, streaming video, PeopleSoft, Microsoft SQL, e-mail, and Internet traffic. If the voice traffic was classified as EF and AF31, the e-mail was classified as AF11, and the Internet traffic was classified as DSCP 0, how would the transactional traffic represented as PeopleSoft and Microsoft SQL be classified?

- A. DSCP AF21
- B. DSCP CS4
- C. DSCP AF33
- D. DSCP AF13

Answer: A

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### QUESTION 3:

Which one of these class maps was configured to match traffic for CS5?

- A. router#show class-map passClass Map match-all real-time (id 2)Match ip dscp 40

- B. router#show class-map forwardClass Map match-all forward (id 3)Match ip dscp 18
- C. router#show class-map real-timeClass Map match-all block (id 5)Match ip dscp 16
- D. router#show class-map blockClass Map match-all block (id 4)Match ip dscp 43

Answer: A

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#### QUESTION 4:

When you enter the interface command auto qos voip cisco-phone on a port at the edge of a network, how does the Cisco Catalyst switch detect if a Cisco IP Phone is connected to the port?

- A. by using RTP hello messages between the switch port and the Cisco IP Phone
- B. by snooping the incoming 802.1Q VLAN tag
- C. by using CDP
- D. by snooping the CoS marking on the incoming frames
- E. by using DHCP snooping

Answer: C

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#### QUESTION 5:

Referring to the partial Cisco Catalyst switch configuration shown, which two of these statements are correct? (Choose two.)

```
vlan 2
private-vlan community
!
vlan 3
private-vlan isolated
!
vlan 4
private-vlan primary
private-vlan association 2, 3
!
interface range fastethernet 1/1 1/2
switchport mode private-vlan host
switchport private-vlan host-association 4 2
!
interface fastethernet 1/3
switchport mode private-vlan host
switchport private-vlan host-association 4 3
!
interface fastethernet 1/4
switchport mode private-vlan promiscuous
switchport private-vlan mapping 4 2, 3
```

- A. A router connected to the fastethernet 1/4 interface will be able to communicate with hosts connected to interface fastethernet 1/1, 1/2, and 1/3.

- B. Hosts connected to interface fastethernet 1/1 and 1/2 can communicate with each other.
- C. Hosts connected to interface fastethernet 1/1, 1/2, and 1/3 can communicate with each other.
- D. A router connected to the fastethernet 1/4 interface will not be able to communicate with the host connected to interface fastethernet 1/3.

Answer: A,B

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#### **QUESTION 6:**

Which keyword is used with the show ip bgp neighbors [keyword] command to display all routes that are received and accepted from a neighbor?

- A. paths
- B. accepted-routes
- C. advertised-routes
- D. routes
- E. received-routes

Answer: D

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#### **QUESTION 7:**

Which tool allows a LAN client to determine which router should be the first hop to a particular remote destination, allowing simplified client configuration and processing without creating a single point of failure?

- A. Proxy ARP
- B. IRDP
- C. VRRP
- D. Dynamic Routing Protocol

Answer: C

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#### **QUESTION 8:**

You are working with a client to classify the different types of application traffic they will have on their network and to assign a QoS value to each traffic flow. The client has identified the following applications: Internet traffic, Oracle, network-based backups, AOL Instant Messenger, IP routing, voice, and voice signaling. Given these types of applications, how many different classes will need to be configured in QoS?

- A. 8
- B. 6
- C. 9

D. 5

Answer: A

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**QUESTION 9:**

Which of these tools should you use to compress VoIP packets on a low-speed Frame Relay circuit?

- A. FRF.9 payload compression
- B. Cisco proprietary payload compression
- C. Predictor payload compression
- D. RTP header compression
- E. TCP header compression

Answer: D

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**QUESTION 10:**

What is the purpose of the int-num variable in the Cisco IOS interface configuration command mpls l2transport route when you configure a Cisco 7600 Series router to do Ethernet over MPLS?

- A. It specifies the interface address of the remote router.
- B. It specifies the incoming interface of the Layer 2 traffic to be transported over the MPLS backbone.
- C. It specifies the outgoing interface through which to route the EoMPLS traffic.
- D. It specifies the desired VLAN interface number.

Answer: A

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