



350-030

CCIE Voice Written v3.0

Exam number/code: 350-030

Exam name: CCIE Voice Written v3.0

Questions & Answers: 441 Q&A

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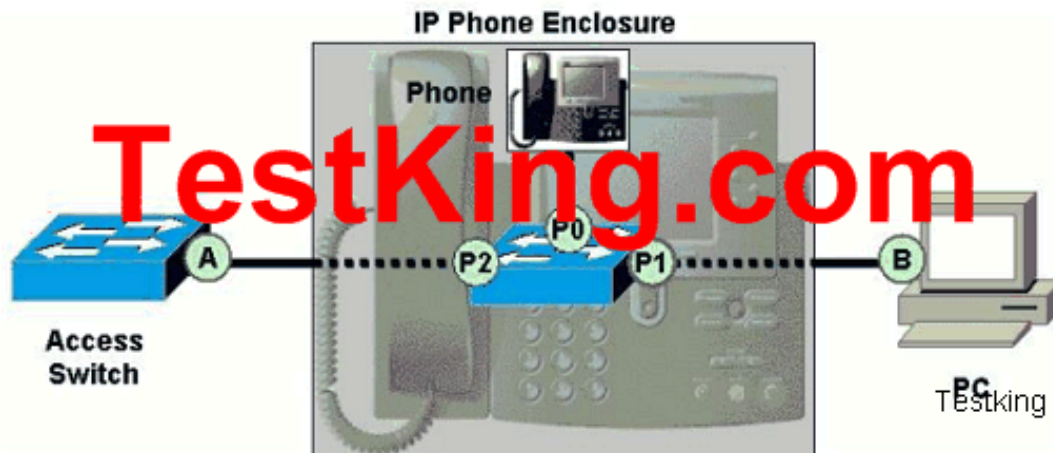
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Question 1:



If a 7960 IP phone sends voice media frames towards the access switch, how will these frames be observed at point A

NOTE: Assume that a frame sniffer capturing data between the phone and the access switch

Assume that the access switch, a Cisco Catalyst 3524Xli is configured as:

```
interface FastEthernet0/1
power inline auto
speed auto
switchport trunk encapsulation dot1q
switchport trunk native vlan 12
switchport mode trunk
switchport voice vlan 112
switchport priority extend cos 0
spanning-tree portfast
```

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NOTE: Assume the phone is connected into port FastEthernet0/1.

- A. The frame will be tagged with 802.1Q VLAN ID of 12, and will have an 802.1p cos value of 3.
- B. The frame will be tagged with 802.1Q VLAN ID of 112, and will have an 802.1p cos value of 5.
- C. The frame will be tagged with 802.1Q VLAN ID of 0, and will have an 802.1p cos value of 3.
- D. The frame will be un-tagged.

Answer: B

Explanation:

802.1Q is the IEEE standard for tagging frames on a trunk and supports up to 4096 VLANs. In 802.1Q, the trunking device inserts a 4-byte tag into the original frame and recomputes the frame check sequence (FCS) before the device sends the frame over the trunk link. At the receiving end, the tag is removed and the frame is forwarded to the assigned VLAN. 802.1Q does not tag frames on the native VLAN. It tags all other frames that are transmitted and received on the trunk. When you configure an 802.1Q trunk, you must make sure that you configure the same native VLAN on both sides of the trunk. IEEE 802.1Q defines a single instance of spanning tree that runs on the native VLAN for all the VLANs in the network. This is called Mono Spanning Tree (MST). This lacks the flexibility and load

balancing capability of PVST that is available with ISL. However, PVST+ offers the capability to retain multiple spanning tree topologies with 802.1Q trunking.

The voice VLAN feature enables access ports to carry IP voice traffic from an IP phone. When the switch is connected to a Cisco7960 IP Phone, the IP Phone sends voice traffic with Layer 3 IP precedence and Layer 2 class of service (CoS) values, which are both set to 5 by default. Because the sound quality of an IP phone call can deteriorate if the data is unevenly sent, the switch supports quality of service (QoS) based on IEEE 802.1P CoS. QoS uses classification and scheduling to send network traffic from the switch in a predictable manner

Question 2:

Which three descriptions are correct about DHCP snooping? (Choose three.)

- A. It can validate ARP packets in a network and permit the interception, logging, and discarding of ARP packets with invalid MAC address to IP address bindings.
- B. DHCP snooping considers untrusted any DHCP messages that originate from a user-facing port that is not a DHCP server port or an uplink to a DHCP server.
- C. The DHCP snooping binding table contains information about hosts that are connected with any interface configured to send messages from within the network only.
- D. It protects DHCP servers from denial of service attacks.

Answer: A,B,D

Question 3:

Which statement does NOT describe dialing domain functionality in Cisco Unity?

- A. Dialing domains are multiple Unity servers that are handling subscribers that are on a single switch or networked switch
- B. Dialing domain IDs are stored on the primary location object. Multiple primary location objects with the same value for this ID make up a dialing domain.
- C. All delivery locations get the same dialing domain ID as the primary location of the box they are created on.
- D. Dialing domains are also necessary if the Unity servers involved don't have overlapping dial plans.
- E. All users in the dialing domain should be able to pick up their phones and dial each other directly without having to dial trunk access codes or use outside lines.

Answer: D

Question 4:

Which 2 functions are performed by a route group?

- A. Performs digit manipulation
- B. Matches dialed number for external calls
- C. Points to the actual gateway/gatekeeper
- D. Chooses path for call routing
- E. Points to prioritized route groups
- F. Points to a route list for routing

Answer: A,C

Question 5:

What issue is most commonly encountered with an analog Foreign Exchange Office (FXO) loopstart port connection to PBX?

- A. Disconnect supervision
- B. Battery reversal
- C. Busy tone
- D. On-hook and off-hook issues

Answer: A

Question 6:

Which of the following are H.245 standard functions? (Choose 2)

- A. H.225 UDP port call setup negotiations between calling and called party
- B. IPaddress exchange and UDP port negotiations between calling and called party
- C. IP port negotiations between calling and called party
- D. CODEC negotiations between calling and called party
- E. IP phone on-hook and off-hook signal exchange

Answer: B,D

Question 7:

You are a network administrator at TestKing. The new TestKing trainee wants to know what Inter-Cluster communications signalling includes in a CallManager cluster.

What will your reply be? (Select two.)

- A. Locations bandwidth and Shared media resources.
- B. Call detail records (CDR) database replication.
- C. Registration of devices
- D. Device configuration replication.
- E. None of the other alternatives apply.

Answer: A,C

Explanation:

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Question 8:

In a 128 kbs videoconference call, what combination will give you the best video quality?

- A. H.261 video and G.711 audio
- B. H.261 video and G.728 audio
- C. H.263 video and G.711 audio
- D. H.263 video and G.728 audio
- E. H.263 video and G.722 audio

Answer: D

Question 9:

Which action in the ICD palette could offer a call to an Event Service Desk?

Exhibit:



- A. Connect
- B. QueueDelay
- C. Dequeue
- D. Select Resource

Answer: D

Question 10:

Refer to the shown output. Calls to the PSTN are being rejected. Which of the following will correct this issue?

```

Mar 8 09:43:15.383: ISDN Se2/0:23 Q931: TX > SETUP pd = 8 callref = 0x1B5C
  Bearer Capability i = 0x0090A0
    Standard = CCITT
    TransferCapability = Speech
    Transfer Mode = Circuit
    Transfer Rate = 64 kbit/s
  Channel ID i = 0xA98397
    Exclusive, Channel 23
  Calling Party Number i = 0x2181, '4085552048'
    Plan:ISDN, Type:CallManager
  Called Party Number i = 0x89, '01141234569999'
    Plan:Private, Type:CallManager
*Mar 8 09:43:15.451: ISDN Se2/0:23 Q931: RX <- RELEASE_COMP pd = 8 callref = 0x1B5C
  Cause i = 0x80BF - Service/option not available, unspecified
    
```

- A. Change the ISDN Numbering Plan type to International
- B. Add the command 'isdn contiguous-bchan' to the serial interface
- C. Change the channel selection order to ascending
- D. Add the command 'isdn negotiate-bchan' to the serial interface

Answer: A

Question 11:

With regard to Analog DID connections to the PSTN, which of the following statements about are true? (Select two.)

- A. DID trunks can only send calls from the CO.
- B. DNIS information is send out-of-band.
- C. DID trunks can only send calls towards the CO.
- D. DNIS information is send in-band.

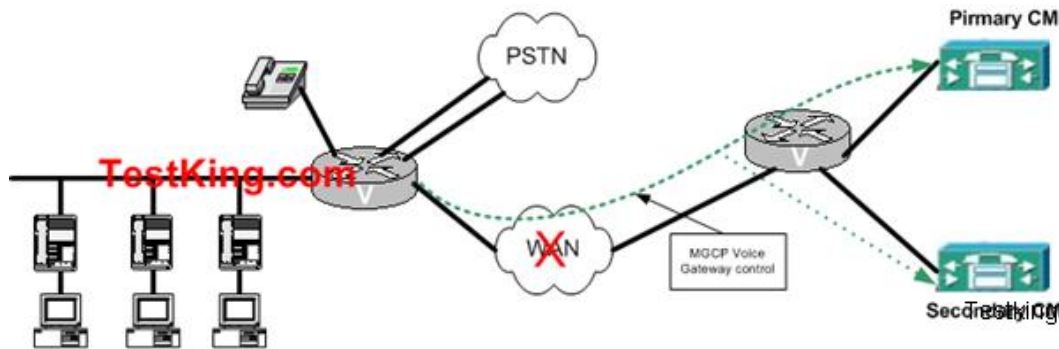
Answer: A,D

Explanation:

DID trunks have only two wires, the digits are sent either pulse-dial or DTMF on the same channel as the voice traffic, therefore, it is inband

Question 12:

You are the network administrator at TestKing. TestKing has a CM network deployed with MGCP to the branch office GWs. The TestKing network is shown in the following exhibit:



You want to protect the protect branch office telephony (IP phone to IP Phone, and IP Phone to PSTN) in the event of a WAN failure.

Which design methods could you implement? (Choose two.)

- A. SRST
- B. MGCP gateway fallback
- C. CM clustering
- D. Primary and Secondary CMs
- E. CAC

Answer: A,B

Question 13:

What is the purpose of the Erlang-C Traffic Model in an IP Contact Center deployment?

- A. To provision ports on an IP-IVR interfacing with Cisco CallManager.
- B. To provision agents initiating/handling the outbound calls only.
- C. To provision agents receiving/handling the inbound calls.
- D. To provision ports on a voice gateway interfacing to the PSTN.

Answer: C

Explanation:

According the website <http://www.erlang.com/whatis.html> , the source given by Cisco as a study resource, the Erlang C is used for Call Center Agent staffing / queuing.

Question 14:

What types of call processing functions do SRST preserve in a remote office in a CM network? (Choose all that apply.)

- A. IP Phone to VoiceMail transcoding services.
- B. IP Phone to conference DSP resources.
- C. IP Phone to GW calls.
- D. IP Phone to IP Phone calls.
- E. CTI applications such as IP SoftPhones.

Answer: C,D,E

Explanation:

C, D: SRST preserve IP-to-IP calls (local calls), IP-to-PSTN calls and global Voicemail calls.
 E: CME/SRST 4.0 added support for CTI applications like Softphone.

Question 15:

Network Topology Exhibit.



Assume Router TestKing1 has been correctly configured to allow the phone on the left to call the phone on the right using Voice over IP. If the phone on the left calls the phone on the right using an IP Precedence setting in both directions, what changes should be made to Router TestKing2?

- A. Create a default dial-peer VoIP statement with the corresponding IP precedence on Router TestKing2 which will be used for all calls without matching destination patterns
- B. Create a dial-peer VoIP statement on Router TestKing2 with a matching destination pattern for Phone TestKing1's number and a corresponding IP precedence statement
- C. Create a policy route map using the policy-route command on the inbound serial interface of Router TestKing2 that will set the IP precedence by matching the source and destination IP address of Router TestKing1 and Router TestKing2
- D. Create a committed access rate using the rate-access command on the inbound serial interface of Router TestKing2 that will set the IP precedence by matching the source and destination IP address of Router TestKing1 and Router TestKing2
- E. Use the set-reverse-direction keyword on the IP precedence line in the corresponding dial-peer on Router TestKing2

Answer: B

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