

# 350-024

## Cisco

### CCIE SP IP Telephony Qualification

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**Question: 1**

When troubleshooting an IOS Voice Gateway, what command will produce detailed information (codec, ERL, tx/rx packets, dial peers, etc) on currently active calls?

- A. show voice call active
- B. show call active voice
- C. show voice port
- D. show voice call

**Answer: B**

**Question: 2**

When troubleshooting a FailSafe problem in Unity, the first place you should look for detailed error messages is the:

- A. tempu.log
- B. System Log
- C. Application Log
- D. SDL Trace
- E. Status Monitor

**Answer: C**

**Question: 3**

In order to pass hook-flash on h.323 from FXS to FXO:

- A. connection plar must be configured on the voice-port (FXS)
- B. connection plar must be configured on the voice-port (FXS) and (FXO)
- C. connection trunk must be configured on the voice-port (FXS)
- D. connection trunk must be configured on the voice-port (FXS) and (FXO)
- E. None of the above

**Answer: E**

**Question: 4**

What type of signaling provides Dialed Number Information Service (DNIS) on a T1/E1?

- A. E&M
- B. Loop Start
- C. Ground start
- D. All of the above

**Answer: D**

**Question: 5**

When Direct Inward Dial is used on a POTS dial peer and an incoming POTS call enters the router: (multiple answer)

- A. The number that is dialing (ANI) automatically becomes the destination-pattern number for the IP destination.
- B. The number that is dialed (DNIS) automatically becomes the destination-pattern number for the IP destination.
- C. The number that is dialing (ANI) automatically becomes the destination-pattern number for the telephony destination.

- D. The number that is dialed (DNIS) automatically becomes the destination-pattern number for the telephony destination.
- E. The number that is dialed (DNIS) & the number that is dialing (ANI) automatically becomes the destination-pattern number for the IP & telephony destination.

**Answer: B, D**

**Question: 6**

What does the term "MGCP backhaul" mean?

- A. Encapsulating ISDN Q.931 CDR records to a RADIUS server
- B. Translating ISDN Q.931 messaging into MGCP events to the MGCP Call Agent
- C. Transporting ISDN Q.921 messaging across IP to the MGCP Call Agent
- D. Transporting ISDN Q.931 messaging across IP to the MGCP Call Agent
- E. Transporting T1 CAS messaging across IP to the MGCP Call Agent

**Answer: D**

**Question: 7**

What statement is an attribute of ISDN Non-Facility Associated Signaling (NFAS)?

- A. Single D-channel controls B-channels on the same T1 span, as well on other T1-spans.
- B. Single T1 span can be split into two "trunk groups", each with its own dedicated D-channel.
- C. Is available on both T1 and E1 PRIs.
- D. Enables the D-channel to transmit "data" information unrelated to any voice call, such as inter-switch status updates.
- E. Applicable to voice calls on PRI only, but not to data PRI calls.

**Answer: A**

**Question: 8**

The IOS GWs support ECMA QSIG. CM, in MGCP Call Agent mode, supports ISO QSIG. What implications does this have on an IP telephony network?

- A. None, the ISO standard is a superset of the ECMA standard.
- B. None, as long as the IOS GW remains in contact with the CM at all times.
- C. During MGCP GW Fallback, no calls to the attached QSIG PBX will work.
- D. During MGCP GW Fallback, basic calls to the attached QSIG PBX will work.
- E. During MGCP GW Fallback, all call functionality to the attached QSIG PBX will work.

**Answer: B, D**

**Question: 9**

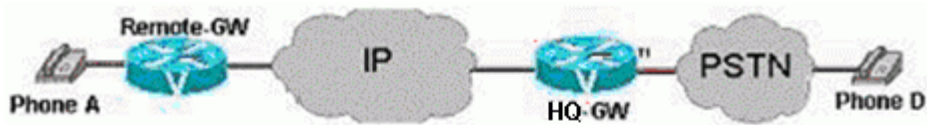
The terms "Wink start", "Delay start" and "Immediate start" are applicable to:

- A. Analog E&M Signaling
- B. T1 CAS E&M signaling
- C. E1 CAS E&M Signaling
- D. Analog DID Signaling
- E. All of the above

**Answer: E**

**Question: 10**

Exhibit:



Remote-GW

```

voice translation-profile CCIE_1
translate called 1
voice translation-rule 1
rule 1 /\(555\)+\(.*)\//4442/type any national plan any isdn
dial-peer voice 1 voip
translation-profile outgoing CCIE_1
session target ipv4:x.x.x.x
Port 0/0

```

HQ-GW

```

Interface FastEthernet0
ip Address x.x.x.x.y.y.y.0
voice translation-profile CCIE_2
translate called 1
voice translation-rule 1
rule 1 /\(12\)+\(.*)\//9112/type national unknown plan unknown isdn
dial-peer voice 1 pots
translation-profile outgoing CCIE_2
Port 1/0:23

```

The user at phone A dials 5551212555. What Digit string is sent to the PSTN for termination assuming call routing is working properly through the IP Network?

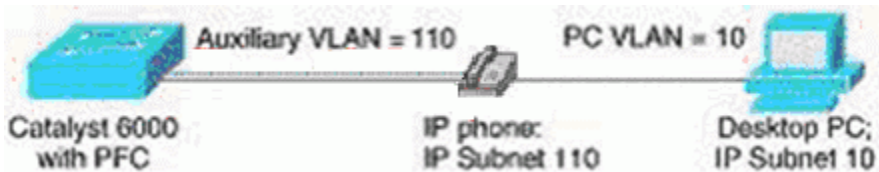
NOTE:

- A. 5551212555
- B. 4441212555
- C. 555911911444
- D. 5551444555
- E. 5554442555

**Answer: B**

**Question: 11**

Exhibit:



The Catalyst 6000 in the shown diagram has been configured with the following commands:  
set qos enable  
set port qos 5/1-48 vlan-based  
set port qos 5/1-48 trust-ext untrusted  
set port qos 5/1-48 trust trust-cos  
Assuming that the IP Phone is connected to port 5/1, which statements are true?

- A. The IP Phone will re-write the CoS of 802.1p/Q-tagged packets from the PC to CoS=0.
- B. The Catalyst 6000 switch port 5/1 will re-write the CoS of all packets with a Cos=0.
- C. The Catalyst 6000 switch port 5/1 will re-write the CoS of all packets received on VLAN 110 with CoS=5.
- D. The IP Phone will not modify the DSCP of packets from the PC.
- E. The Catalyst 6000 will not modify the CoS of any packets received on port 5/1.

**Answer: A, E**

**Question: 12**

What protocol does an IP Phone use to learn the IP Address of its TFTP Server?

- A. HSRP
- B. DHCP
- C. Skinny Station Protocol
- D. STP
- E. CDP

**Answer: B**

**Question: 13**

What interface does SMDI traditionally use?

- A. Serial
- B. Parallel
- C. Ethernet
- D. Firewire
- E. USB

**Answer: A**

**Question: 14**

Consider phone A, assigned to Calling Search Space A. Calling Search Space A contains the following partitions (in the order shown), listed with their respective Route Patterns: Partition\_A1, containing Route Pattern 1XXX; Partition\_A2, containing Route Pattern 10XX. If Phone A dials "1001", what statement is true?

- A. Route Pattern 1XXX and 10XX both match, but since 1XXX is listed first, it will be chosen.
- B. Route Pattern 1XXX and 10XX both match, but since 10XX is a better match, it will be chosen.
- C. None of the route patterns are an exact match, thus none will match, and the caller will hear re-order tone.
- D. Both patterns are equivalent matches, and Call Manager will choose them in a round robin fashion.

**Answer: B**

**Question: 15**

Consider phones A and B. Both phones are registered in the same cluster. Phone A is configured with extension 1000. Phone B is configured with extension 2000.

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