

# 350-030

## Cisco

### CCIE Voice Written

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**Question: 1**

Which are the three elements to MQC?

- A. CallManager, IP Phones and SRST
- B. Gatekeeper, H.323 Proxy and RSVP
- C. Mean Opinion Scores, representative sampling, Standard Deviation
- D. Class-map, Policy-map and Service-policy statement
- E. DSP, Codec and Sampling Rate

**Answer: D**

**Question: 2**

The default fax relay connection rate is:

- A. 4800 bps
- B. 9600 bps
- C. 14400 bps
- D. 7200 bps

**Answer: D**

14400 for G711, 7200 for G729. G729 is default codec

**Question: 3**

**Exhibit:**



In the figure shown, the user as Analog phone A places a call to the user at Phone D. This call is rejected and the issue is troubleshot down to a mismatch of ISDN Plan and Type that the PSTN is receiving. The PSTN is expecting Plan: Unknown, Type: Unknown while the GW is sending Plan: ISDN Type: Unknown. Which methods will resolve this mismatch in the networks?

- A. Outgoing translation rule on the VOIP dialpeer on HQ-Gw
- B. Use the "isdn map" command on the POTS dialpeer on HQ-Gw
- C. Use the "isdn map" command on the VOIP dialpeer on HQ-Gw
- D. Outgoing translation rule on the POTS dialer on Remote-Gw
- E. Use the "isdn map" command on the VOIP dialpeer on Remote-Gw

**Answer: C**

**isdn map**

To override the default ISDN type and plan generated by the router with custom values, use the **isdn map** command in interface configuration mode. To revert to the default ISDN type and plan, use the **no** form of this command.

**isdn map** {address address | *regexp* | plan plan | type type} **no isdn map** {address address | *regexp* | plan plan | type type}

**Syntax Description**

<b>address</b> address	Address map, which can be to the calling, called, or redirecting number.
<i>regexp</i>	Regular expression for pattern matching.
<b>plan</b> plan	ISDN numbering plan.
<b>type</b> type	ISDN number type.

**Question: 4**

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

- A. connection plan must be configured on the voice-port (FXS)
- B. connection plan 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: 5**

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: 6**

Many types of devices can register with a Cisco CallManager. Examples are: IP phones, voice mail ports, CTI (TAPI/JTAPI) devices, gateways, and DSP resources such as transcoding and conferencing. A weight is assigned for each of these devices when provisioning CallManager based upon:

- A. The total number of each device type.
- B. Memory and CPU resources each device type requires from the server.
- C. The number of calls a device handles in the busy hour.
- D. All of the above.

**Answer: B**

**Question: 7**

What is considered a node in a H.323 network?

- A. Gateway
- B. Gatekeeper
- C. Proxy
- D. All of the above.

**Answer: D**

**Question: 8**

A Centralized Automatic Message Accounting (CAMA) trunk allows enterprise voice GW connectivity to the North American emergency (911) services of the PSTN.  
How does CAMA trunk signaling differ from FXO trunk signaling?

- A. CAMA provides for dialed digit delivery, while FXO does not.
- B. CAM supports only loopstart, while FXO supports ground- and loopstart.
- C. They do not differ in basic signaling, but CAMA is used exclusively for 911 calls, while FXO is used for general PSTN calls.
- D. CAMA provides for ANI digit delivery, while FXO does not.
- E. FXO allows for dialed digit delivery, while CAMA does not.

**Answer: C**

**Question: 9**

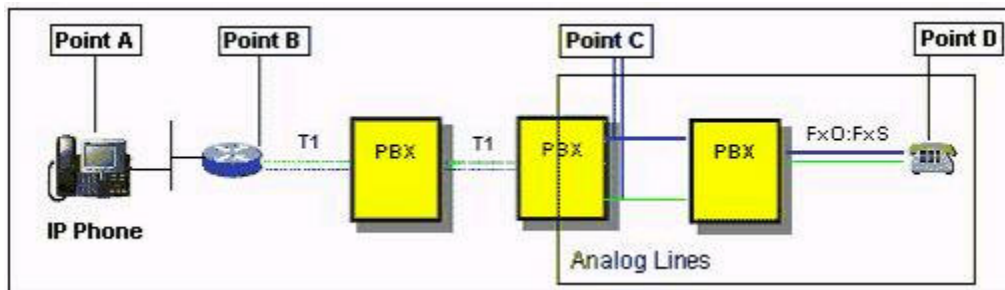
An H.323 proxy Gatekeeper Request (GRQ) Registration, Admission, and Status (RAS) message is sent by which endpoints? (Multiple answer)

- A. Gateway
- B. Gatekeeper
- C. H.323 Terminal
- D. Proxy

**Answer: A, C**

**Question: 10**

**Exhibit:**



In the diagram shown, what section of the voice path represents the Tail Circuit?

- A. Between Point A and Point B.
- B. Between Point C and Point D.
- C. Between Point A and Point D.
- D. Between Point B and Point D.

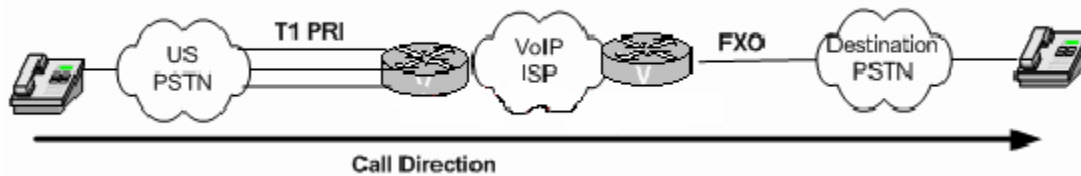
**Answer: D**

**Reference:**

1. Cisco IP troubleshooting P416
2. [http://www.cisco.com/en/US/tech/ex652/ex698/technologies\\_tech\\_note09186a0080149a1f.shtml](http://www.cisco.com/en/US/tech/ex652/ex698/technologies_tech_note09186a0080149a1f.shtml)

**Question: 11**

**Exhibit:**



An ISP offers debit card calling from the US to countries around the world where there is only FXO connectivity to the PSTN. It is important to the ISP that customers not be charged for the call unless the call successfully reached the called party in the PSTN.

What design requirement of the terminating FXO voice GW will achieve this ISP's requirements?

- A. Avoid use of FXO for this application, it cannot achieve the requirements.
- B. Configure call progress tone detection on the FXO interface to indicate answer supervision.
- C. Configure call progress tone detection on the FXO interface to indicate disconnect supervision.
- D. Use Voice Activity Detection (VAD) to derive whether or not a person answered the call.
- E. Use the CDR records to derive which calls resulted in "ring no answer" and which calls were answered.

**Answer: B**

**Question: 12**

What is NOT a primary cause of echo in a voice network?

- A. 4 wire to 2 wire Hybrids
- B. Packet Loss In the IP Network
- C. Delay in the IP Network
- D. Acoustical Reflections

**Answer: B**

**Question: 13**

Select the valid SMDI packet:

- A. ND0010001A0002222 00012324
- B. RD0010001B0002222 00012324
- C. MC0010001D0002222 00012324
- D. MVI010001N0002222 000112324
- E. MD0010001A0002222 000112324

**Answer: E**

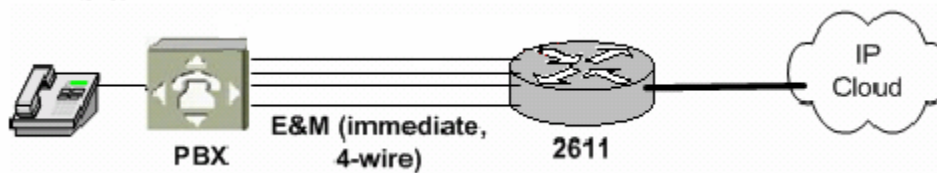
**Reference:**

CISCO CALLMANAGER, Troubleshooting Legacy Voice Mail Integration with Cisco CallManager 3.0 and 3.1

[http://www.cisco.com/en/US/products/sw/voicesw/ps556/products\\_tech\\_note09186a00800a8956.shtml](http://www.cisco.com/en/US/products/sw/voicesw/ps556/products_tech_note09186a00800a8956.shtml)

**Question: 14**

**Exhibit:**



What should an administrator do if the PBX does not receive the initial few digits from the IP side of the 2611?

- A. Configure prefix, in the dial-peer POTS to forward the necessary digits.
- B. Configure delay-dial under the voice-port to add the delay.
- C. Configure prefix delay in the dial-peer POTS to add the delay.
- D. Configure interdigit timing 1 under the voice-port.

**Answer: B**

TELEPHONY SIGNALING, Understanding and Troubleshooting Analog E&M Start Dial Supervision Signaling

[http://www.cisco.com/en/US/tech/ex652/ex653/technologies\\_tech\\_note09186a0080093f61.shtml](http://www.cisco.com/en/US/tech/ex652/ex653/technologies_tech_note09186a0080093f61.shtml)

**Question: 15**

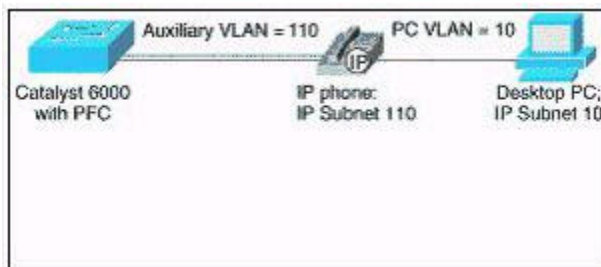
When troubleshooting a FailSafe problem in Unity, the first place you should look for detailed error messages is the:

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

**Answer: C**

**Question: 16**

**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?

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