Vendor: CISCO
Exam Code: 350-030
Exam Name: CCIE Voice Written
QUESTION 1
How is fax pass-through traffic treated over IP WAN connections that use the G.729 codec?

A. The fax traffic is demodulated and sent with VAD and echo chancellor disabled.
B. When the TGW detects the CED tone from the fax machine that has been contacted, the TGW changes to the G.711 codec with echo chancellor and VAD disabled.
C. When the OGW detects the CED tone from the fax machine that is making the call, the OGW is informed by the contacted device of the Cisco NSF features and switches to the G.711 codec with VAD disabled.
D. The contacting fax machine sends a TCF message to the contacted fax machine and waits for a CFR message. When the CFR message is received, the fax tones sent by the contacting fax machine cause the OGW to send an NSF message to the TGW, instructing it to switch to the 711 codec with echo chancellor and VAD disabled.

Answer: B

QUESTION 2
Which two of these are possible reasons why a JTAPI subsystem might have the status PARTIAL_SERVICE? (Choose two.)

A. Cisco Unified Contact Center is not able to resolve the host name of Cisco Unified Communications Manager.
B. A referenced CTI Route Point is not associated with the JTAPI user.
C. The JTAPI user password is not correct.
D. There is an error in one of the scripts being loaded.
E. The CTI Manager service is not running on Cisco Unified Communications Manager.

Answer: BD

QUESTION 3
To hide its identity when initiating calls, SIP Phone B requests that Server B place its calls for it.
What kind of device is Server B?

A. proxy
B. redirect
C. registrar
D. user agent client
E. user agent server

Answer: A

**QUESTION 4**
Which of the following three messages could be sent by the UAC in response to the 180 Ringing? (Choose three.)

```
-------------- INVITE --------------→
<------------- 100 Trying --------------
<------------- 180 Ringing --------------
```

A. PRACK
B. ACK
C. BYE
D. CANCEL
E. INVITE

Answer: ABD
QUESTION 5
On which gateway or gatekeeper is the IOS command call-rsvp-sync resv-timer 10 used to set the timer?

A. originating VoIP gateway for completing RSVP reservation setups in 10 seconds
B. originating and terminating VoIP gateway for completing RSVP reservation setups in 10 seconds
C. terminating VoIP gateway for completing RSVP reservation setups in 10 seconds
D. VoIP gatekeeper for completing RSVP reservation setups in 10 seconds

Answer: C

QUESTION 6
On a Cisco IOS MGCP gateway that is registered to Cisco Unified Communications Manager, which MGCP message is initiated by the gateway?

A. RQNT
B. NTFY
C. EPCF
D. CRCX
E. SETUP

Answer: B

QUESTION 7
On a Cisco IOS MGCP gateway that is registered to Cisco Unified Communications Manager, which four MGCP messages are initiated by Cisco Unified Communications Manager? (Choose four.)

A. AUEP
B. MDCX
C. RQNT
D. NTFY
E. RSIP
QUESTION 8
Which three signaling types are not used by analog E&M circuits as start dial supervision protocols? (Choose three.)

A. delay dial
B. wink-start
C. ground-start
D. wink-start Feature Group D
E. immediate-start
F. pulse dial

Answer: CDF

QUESTION 9
How many channels on a voice E1 circuit are used to carry PCM-encoded voice traffic?

A. 16
B. 28
C. 29
D. 30
E. 31

Answer: D

QUESTION 10
Which telephony signaling type cannot be configured for a Cisco IOS MGCP gateway on Cisco Unified Communications Manager?

A. T1 PRI
B. analog FXO
C. analog E&M
D. T1 CAS E&M delay dial
E. ISDN BRI

Answer: C

QUESTION 11
What is the default switchback method for a Cisco IOS MGCP PRI gateway when a higher-priority Cisco Unified Communications Manager becomes available again?

A. graceful
B. immediate
C. uptime delay
D. never
E. schedule time

Answer: A

QUESTION 12
An H.225 call setup arrives at Cisco Unified Communications Manager for a directory number on an IP phone that is engaged in an active conversation. If call waiting is disabled for this directory number and none of the Call Forward settings are defined, which H.225 disconnect reason code will be sent to the originating H.323 gateway?

A. No Route To Destination
B. Normal Call Clearing
C. Subscriber Absent
D. User Busy
E. Network Busy

Answer: D
QUESTION 13
Refer to the exhibit.

In this 802.1Q tagged Ethernet frame, which block of bits, labeled A, B, C, and D, is used as VID?

A. A  
B. B  
C. C  
D. D

Answer: D

QUESTION 14
Your client has a business requirement that mandates exact DTMF durations being passed end-to-end across an H.323 VoIP infrastructure. Which two DTMF relay methods meet the client requirement? (Choose two.)

A. Cisco RTP  
B. H.245 signal  
C. H.245 alphanumeric  
D. RTP-NTE  
E. H.225 Notify  
F. in-band voice

Answer: BD
QUESTION 15
Which set of SIP headers is mandatory in SIP requests?

A. Call-ID, Contact, User-Agent, RSeq, SDP
B. Allow, Supported, Via, From, To, CSeq
C. Via, From, To, Call-ID, CSeq, Contact
D. Content-Type, Content-Length, Session-Expires, Via, From
E. Req URI, From, Via, To, CSeq

Answer: C

QUESTION 16
Which Cisco IOS command and configuration mode can be used to force a Cisco IOS voice gateway to use TCP as the transport protocol for SIP?

A. router(config)#sip transport tcp
B. router(conf-voi-serv)#no sip transport udp
C. router(conf-serv-sip)#no transport udp
D. router(conf-serv-sip)#transport tcp
E. router(config-sip-ua)#no transport udp

Answer: E

QUESTION 17
Refer to the exhibit.
The exhibit shows the T.30 message exchanges that resulted in a single page fax call failure. Which T.30 message sequence will result in a successful fax transmission?

A. PPS, EOP, PPR, PPS, EOP, NSF, DCN
B. MPS, EOP, PPR, PPS, EOP, MCF, DCN
C. PPS, EOP, RTP, PPS, EOP, NSF, DCN
D. PPS, EOP, PPR, PPS, EOP, MCF, DCN
E. PPS, EOP, NSF, DCN
QUESTION 18

Refer to the exhibit.

```
Sent:
INVITE sip:2000@14.1.123.195:5060 SIP/2.0
Via: SIP/2.0/UDP 14.1.125.125:5060;branch=z9hG4bK2B4E0
From: <sip:1000@14.1.125.125>;tag=FA754-1A90
To: <sip:2000@14.1.123.195>
Date: Wed, 2 Jan 2007 10:57:09 GMT
Call-ID: C1EAE65-998011DF-8174D9C7-851E0C65@14.1.125.125
Supported: timer, resource-priority, replaces, sdp-anat
Min-SE: 1800
Cisco-Guid: 3207690162-2578452959-2171591111-22333142405
User-Agent: Cisco-SIPGateway/10S-12.x
Allow: INVITE, OPTIONS, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY, INFO, REGISTER
CSeq: 101 INVITE
Max-Forwards: 70
Timestamp: 1280343429
Contact: <sip:1000@14.1.125.125;transport=udp>
Call-Info: <sip:14.1.125.125:5060>;method="NOTIFY;Event=telephone-event;Duration=2000"
Expires: 180
Allow-Events: telephone-event
Content-Type: application/sdp
Content-Disposition: session,handling=required
Content-Length: 247

v=0
o=CiscoSystemsSIP-GW-UserAgent 6731 3233 IN IP4 14.1.125.125
s=INV Call
c=IN IP4 14.1.125.125
t=0 0
a=audio 10100 RTP/AVP 0 101
c=IN IP4 14.1.125.125
a=rtmap:0 PCMU/8000
a=rtmap:101 telephone-event/8000
a=fmtp:101 0-16
a=ptime:20
```

Which two DTMF capabilities are advertised in this SIP INVITE message? (Choose two.)

A. in-band voice
B. RTP-NTE
C. SIP KPML
D. SIP Notify
E. Cisco RTP
F. RTP-NSE

Answer: BD
**QUESTION 19**
Which R2 signaling element passes address information such as calling- and called-party numbers?

A. pulse signaling  
B. delay dial signaling  
C. line signaling  
D. interregister signaling  
E. out-of-band signaling

**Answer: D**

**QUESTION 20**
Which two are valid switchover methods for SCCP hardware conference bridges? (Choose two.)

A. immediate  
B. guard  
C. uptime delay  
D. schedule time  
E. graceful  
F. never

**Answer: AE**