



300-070^{Q&As}

Implementing Cisco IP Telephony & Video, Part 1 v1.0

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**QUESTION 1**

What is the maximum number of 1080p30 HD Conference Participants if an MSE 8000 has four MSE8710 blades clustered?

- A. 48.
- B. 180
- C. 720
- D. 800

Correct Answer: A

QUESTION 2

You are a Voice Engineer at ABC Company. You want to provision a new voice gateway for a remote site, and you need to configure 24 channels of a T1 CAS interface. Which set is the correct set of commands for this configuration?

- A. R1(config)# controller t1 1/0R1(config-controller)# framing esfR1(config-controller)# linecode b8zsR1(config-controller)# primary-group 1 timeslot 1-24 type fxo-loop-start
- B. R1(config)# controller t1 1/0R1(config-controller)# linecode hdb3R1(config-controller)# framing crc4R1(config-controller)# clock source lineR1(config-controller)# ds0-group 1 timeslot 1-24 type fxo-loop-start
- C. R1(config)# isdn switch-type primary-5essR1(config)# controller t1 t1/0R1(config-controller)# pri-group timeslots 1-24
- D. R1(config)# controller t1 1/0R1(config-controller)# framing esfR1(config-controller)# linecode b8zsR1(config-controller)# clock source lineR1(config-controller)# ds0-group 1 timeslot 1-24 type fxo-loop-start

Correct Answer: D

QUESTION 3

By default, what value is voice traffic marked as on a Cisco Catalyst Switch?

- A. DSCP EF value 46, Cos 5.
- B. DSCP EF value 46, Cos 7.
- C. DSCP CAS6 value 21, Cos 3.
- D. DSCP AF21, Cos 5.

Correct Answer: A

QUESTION 4



Refer to the exhibit.

9.1[2-9]XX[2-9]XXXXXX

9.18[0,6-8][0,6-8]XXXXXX

9.1900XXXXXX

9011.!

9011.!#

To reach an external number, a user first dials a 9. Which route pattern will be matched if a user dials an international number 011442288223001 and terminates the interdigit timeout?

- A. 9.1[2-9]XX[2-9]XXXXXX.
- B. 9.18[0,6-8][0,6-8]XXXXXX.
- C. 9.1900XXXXXX.
- D. 9011.!
- E. 9011.!#.

Correct Answer: E

QUESTION 5

Which two can be targets of a route pattern? (Choose two.)

- A. gateway
- B. gatekeeper
- C. route group
- D. route list
- E. translation pattern
- F. CTI Port

Correct Answer: AD

QUESTION 6

Refer to the exhibit. What is the IP address of the backup Cisco Unified Communications Manager system?



```
ccm-manager fallback-mgcp
ccm-manager mgcp
ccm-manager music-on-hold
ccm-manager config server 10.1.5.2
|
mgcp
mgcp call-agent 10.1.5.3 2427 service-type mgcp version 0.1
mgcp dtmf-relay voip codec all mode out-of-band
mgcp rtp unreachable timeout 1000 action notify
mgcp modem passthrough voip mode nse
mgcp package-capability rtp-package
mgcp package-capability sst-package
no mgcp package-capability fxr-package
mgcp package-capability pre-package
no mgcp timer receive-lcp
mgcp sdp simple
mgcp rtp payload-type g726r16 static
```

- A. 10.1.5.3
- B. 10.1.5.2
- C. There is no backup configured; the command `ccm-manager redundant-host` is required
- D. The command `ccm-manager fallback-mgcp` provides the Cisco Unified Communications Manager backup, which is derived from the Cisco Unified Communications Manager group

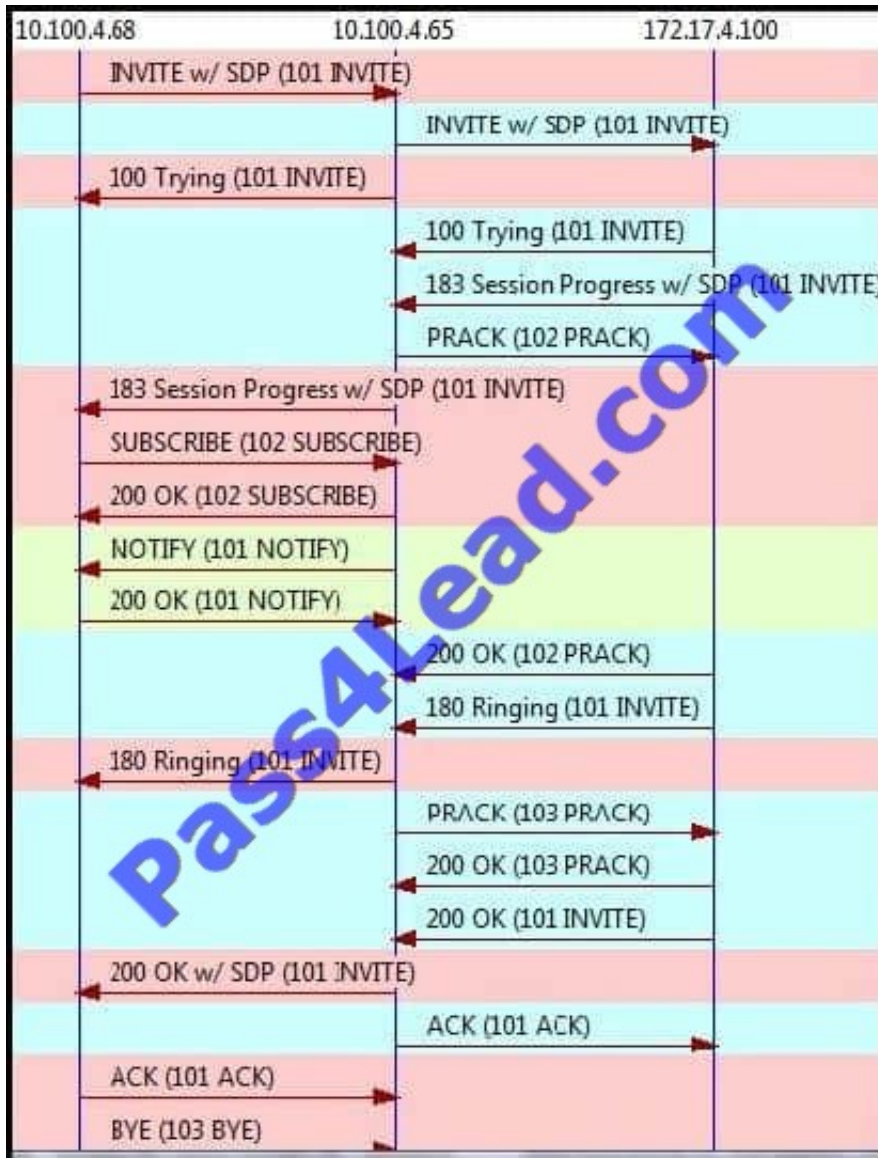
Correct Answer: C

Explanation/Reference:

GWGK: Implementing MGCP Gateways

QUESTION 7

Refer to the exhibit.



Which party has a SIP B2BUA role in the call?

- A. 172.17.4.100
- B. 10.100.4.65 and 172.17.4.100
- C. 10.100.4.65
- D. None of the parties has a B2BUA role in the call.
- E. 10.100.4.68 and 10.100.4.65

Correct Answer: C

QUESTION 8

A phone is assigned to a partition that is included in the CSS HQ-Phone. This partition contains a route pattern to block



calls to service numbers 1-400-xxx-xxxx. When the engineer makes a test call to the number 1-400-400-9000 from that phone, the call goes through. What is the reason for

this issue?

- A. The route pattern for the number to be blocked is in partition not accessible to the CSS.
- B. The correct route list is not selected in the route pattern for the dialed number to be blocked.
- C. The correct gateway is not selected for the route list for the route pattern for the dialed number to be blocked.
- D. The route pattern for the number to be blocked is in "NULL" partition.
- E. The route pattern is misconfigured.

Correct Answer: A

QUESTION 9

Which two configuration items are necessary to configure Cisco Unified Border Element for video? (Choose two.)

- A. voice class codec
- B. voice translation-rule
- C. voice service voip
- D. dial-peer

Correct Answer: CD

QUESTION 10

Which three devices are analyzed by the Cisco Unified Communications Dialed Number Analyzer?

(Choose three.)

- A. gatekeeper
- B. remote destination
- C. CTI route point
- D. trunk
- E. phone
- F. gateway

Correct Answer: DEF



QUESTION 11

Which command is used to enter the DSP farm profile configuration mode?

- A. dspfarm-profile 100 transcode
- B. dspfarmprofile 100 transcode
- C. dspfarm profile 100 transcode
- D. dspfarm 100 profile transcode

Correct Answer: C

QUESTION 12

What is the correct order for configuring call routing in Cisco Unified Communications Manager?

- A. gateway and SIP trunk, route group, route pattern, route list
- B. gateway and SIP trunk, route list, route group, route pattern
- C. gateway and SIP trunk, route group, route list, route pattern
- D. route list, gateway and SIP trunk, route group, route pattern

Correct Answer: C

QUESTION 13

Which three commands show the output of an active video call? (Choose three.)

- A. show vrm active_calls
- B. show call active video brief
- C. show voip rtp connections
- D. show voice call
- E. show voice call summary
- F. show video dsp

Correct Answer: BCE

QUESTION 14

Refer to the exhibit.



The screenshot displays two configuration pages in the Cisco Unified CM Administration interface. The top page is 'SIP Route Pattern Configuration' and the bottom page is 'Gateway Configuration'. A large blue watermark 'Pass4Lead.com' is overlaid diagonally across the center of the image.

SIP Route Pattern Configuration

Status: Add successful

Pattern Definition

Pattern Usage	Enrutamiento de dirección IP
IPv4 Pattern*	10.200.6.3
IPv6 Pattern	
Description	Monterrey
Route Partition	Interna
SIP Trunk/Route List*	RL-Monterrey
<input type="checkbox"/> Block Pattern	

Calling Party Transformations

Use Calling Party's External Phone Mask

Calling Party Transformation Mask:

Prefix Digits (Outgoing Calls):

Calling Line ID Presentation*: Default

Gateway Configuration

Status: Status: Ready

Device Information

Product	H.323 Gateway
Device Protocol	H.225
Registration	Unknown
IP Address	10.200.6.3
<input type="checkbox"/> Device is not trusted	
Device Name*	10.200.6.3
Description	10.200.6.3 M...
Device Pool*	DP-Monterrey
Common Device Configuration	< None >
Call Classification*	OffNet
Media Resource Group List	MRGL-Monter
Packet Capture Mode*	None
Packet Capture Duration	0



A Network Administrator needs to create a SIP route pattern to communicate with Monterrey's Gateway.

The Administrator does not understand why this is not working properly. Which two statements explain the issue and resolve the problem? (Choose two.)

- A. The issue is caused by a failure of communication between the Monterrey's Gateway and CUCM.
- B. The Administrator should type the reload command into Monterrey's Gateway.
- C. The issue is caused by incorrect protocol integration between Monterrey's Gateway and CUCM.
- D. The Administrator needs to set up a SIP trunk between Monterrey's Gateway and CUCM.

Correct Answer: CD

QUESTION 15

Which three items have a calling search space? (Choose three.)

- A. transcoder
- B. gateways
- C. phone lines
- D. phones
- E. partitions
- F. AAR groups

Correct Answer: BCD

Explanation/Reference:

Reference: <http://www.cisco.com/c/en/us/support/docs/voice-unified-communications/unifiedcommunications-manager-callmanager/22325-part-css-tn.html>

QUESTION 16

Refer to the exhibit.



Which option is the most highly recommended option to install Cisco TelePresence Conductor on the virtual machine?

- A. Thick Provision Eager Zeroed
- B. Thick Provision Lazy Zeroed
- C. Thick Provision
- D. Thin Provision

Correct Answer: B

Explanation/Reference:

Reference: http://www.cisco.com/c/dam/en/us/td/docs/telepresence/infrastructure/conductor/install_guide/TelePresence-Conductor-Virtual-Machine-Install-Guide-XC3-0.pdf (page 8)

QUESTION 17

Which resources can include MRGL?

- A. MoH
- B. Cisco IP Phone service
- C. soft key template
- D. Annunciator
- E. MTP
- F. Something about CTI

Correct Answer: ADE

QUESTION 18

Refer to the exhibit.



```
dial-peer voice 204 pots
description LLAMADA_CELULAR_SCZ_SALIENTE_SRST
destination-pattern 9[67].....$
port 0/1/0
forward-digits 7
```

What is the problem when 237 dials 972551915?

- A. The problem is in "forward-digits 7"; the dial peer should be with "forward-digits 9."
- B. The problem is in "forward-digits 7"; the dial peer should be with "forward-digits 5."
- C. The problem is in "forward-digits 7"; the dial peer should be with "forward-digits 2."
- D. The problem is in "forward-digits 7"; the dial peer should be with "forward-digits 8."

Correct Answer: D

QUESTION 19

What are the two benefits of using SIP dial rules on an IP phone? (Choose two)

- A. The phone can initiate dialing without sending any signaling messages to Cisco Unified CommunicationsManager.
- B. The phone can detect invalid numbers and play a reorder tone without sending any signaling messages toCisco Unified Communications Manager.
- C. If dialed digits match an entry of a SIP dial rule, the dialed string is sent in a single SIP 200 OK message toCisco Unified Communications Manager.
- D. If Cisco Unified Communications Manager requires more digits, KPML can be used to send the remainingdigits from the SIP phone to Cisco Unified Communications Manager one-by-one.
- E. If Cisco Unified Communications Manager requires more digits, another en bloc message is used to sendthe remaining digits from the SIP.

Correct Answer: BD

QUESTION 20

Which three options can belong to specific partitions? (Choose three.)

- A. voice-mail servers
- B. directory numbers
- C. translation patterns



D. gateways

E. IP phones

F. route patterns

Correct Answer: BCF

Explanation/Reference:

Reference:

http://www.cisco.com/c/en/us/td/docs/voice_ip_comm/cucm/admin/7_1_2/ccmcfg/bccm-712cm/b02devpl.html
(configuring a device pool)

QUESTION 21

Which DSCP classification is defined in RFC 2474?

A. DSCP CS3.

B. DSCP 0.

C. DSCP AF11.

D. DSCP CS6.

E. DSCP EF.

F. DSCP CS2.

G. DSCP CS1.

H. DSCP AF21.

Correct Answer: A

QUESTION 22

Managers have asked to be able to have an extension call them back if it is busy when they try to call it. In what two places can this feature be assigned to the Managers phone? (Choose two.)

A. Device Settings > Softkey Template

B. Device Settings > Default Device Profile Configuration

C. Device Settings > Phone Button Template

D. Device Settings > Device Profile

E. Device Settings > Device Defaults

F. Device Settings > Firmware Load Information



Correct Answer: AD

QUESTION 23

Which three options can be used to configure digit manipulation for dial peers? (Choose three.)

- A. digit translation rules
- B. called party transformations
- C. route partitions
- D. forward digits
- E. route patterns
- F. digit stripping and prefixes
- G. calling party transformations

Correct Answer: ADF

Explanation/Reference:

Reference: http://www.cisco.com/c/en/us/td/docs/ios/12_2/voice/configuration/guide/fvvfax_c/vvfppeers.html#wp1244453

QUESTION 24

When configuring an H.323 gateway, which configuration option can be used to set whether an incoming call is considered off the network (OffNet) or on the network (OnNet)?

- A. call classification
- B. call location
- C. device pool
- D. signaling port

Correct Answer: A

QUESTION 25

Which two types of encoding are available to configure a T1 controller for CAS? (Choose two.)

- A. B8SF
- B. AMI
- C. B8ZS



D. SF

E. AME

F. ESF

Correct Answer: BC

QUESTION 26

A Cisco Unified Communications Manager group specifies a prioritized list of how many Cisco Unified Communications Managers?

A. 0

B. 1

C. 2

D. 3

E. 4

F. 5

G. 6

H. 7

Correct Answer: D

QUESTION 27

Refer to the exhibit.



Gateway Configuration

Save Delete Copy Reset Apply Config Add New

Status
Status: Ready

Device Information

Product	H.323 Gateway
Device Protocol	H.225
Registration	Unknown
IPv4 Address	10.200.6.3
⚠ Device is not trusted	
Device Name*	10.200.6.3
Description	10.200.6.3 Monterrey
Device Pool*	DP-Monterrey
Common Device Configuration	< None >
Call Classification*	Offnet
Media Resource Group List	MRGL-Monterrey
Packet Capture Mode*	None
Packet Capture Duration	0

A Network Administrator needs to create a SIP route pattern to communicate with Monterrey's Gateway. The Administrator does not understand why this is not working properly. Which two statements explain the issue and resolve the problem? (Choose two.)

- A. The Administrator needs to set up a SIP trunk between Monterrey's Gateway and Cisco Unified Communications Manager.
- B. The Administrator should type the reload command into Monterrey's Gateway
- C. The issue is caused by a failure of communication between the Monterrey's Gateway and Cisco Unified Communications Manager
- D. The issue is caused by incorrect protocol integration between Monterrey's Gateway and Cisco Unified Communications Manager.

Correct Answer: AD

QUESTION 28

Which QoS model is bandwidth-dedicated to provide sufficient quality for applications that need high resolution, such as video terminals?

- A. DiffServ
- B. Best-Effort
- C. DiffServf



D. IntServ

Correct Answer: A

QUESTION 29

When dialing off-hook from an SCCP phone, how does Cisco Unified Communications Manager analyze the incoming dialed digits?

- A. SIP dial rules
- B. en bloc dialing
- C. digit-by-digit analysis
- D. KPML

Correct Answer: C

QUESTION 30

Refer to the exhibit. What CSS should be assigned to a phone in the Phones partition to block calls to international numbers while allowing all other calls?

Partition = Phones	CSS A Phones
Partition = Service_Numbers	International
Route Pattern X11	CSS B
Partition = Local_PSTN	LongDistance_PSTN
Route Pattern X11	CSS C
Route Pattern 9.@	Phones
Partition = LongDistance_PSTN	LongDistance_PSTN
Route Pattern X11	CSS D
Route Pattern 9.[2-9]XXXXXX	Phones
Route Pattern 9.1[2-9]XX[2-9]XXXXXX	Service_Numbers
Partition = International	Local_PSTN
Route Pattern 9.0111	LongDistance_PSTN

- A. CSS A
- B. CSS B
- C. CSS C
- D. CSS D

Correct Answer: C



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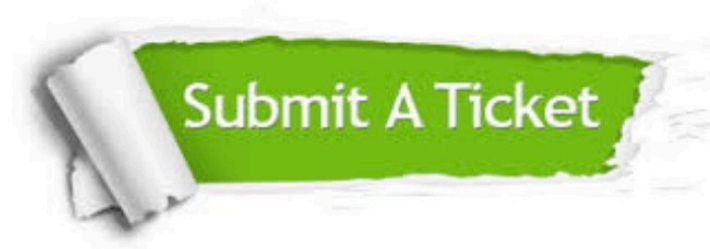
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