Exam Code: 642-143
IP Telephony Express Exam (IPTX)

Demo Version

QUESTION 1
Which four features are associated with the Cisco Unity Express AIM module? (Choose four)

A. Supports up to 100 personal
mailboxes.
B. Supports up to 4 ports.
C. Supports up to 8 hours of storage capacity.
D. Supports up to 15 general delivery mail boxes.
E. Basic system comes equipped with IPCC Express.
F. Supports up to 5 active automated attendants per system.

Answer: B, C, D, F
Note: (a) The CUE AIM module is a 4-port module that stores a maximum of 50 voice mailboxes. The 512 MB
flash version of the AIM supports 8 hours of voice messages while the 1 GB flash version of the AIM supports
14 hours of voice messages.
(b) The NM is an 8-port module that stores a maximum of
100 voice mailboxes and 100 hours of voice messages.

QUESTION 2
What is the purpose of a voice codec? (Choose two)

A. Reduce bandwidth requirements.
B. Improve signal to noise characteristics.
C. Improve voice quality.
D. Approximate an audio wave in digital form.

Answer: A, D

QUESTION 3
Which two of the following must be configured to allow users to bind transfer calls to both internal and
PSTN numbers using H.450.2 supplementary services? (Choose two)

A. transfer-pattern .T
B. transfer-system full-bind

C. supplemental service h.450.2
D. allow-connections h323 to h323

Answer: A, B
To configure CME to permit transfers to nonlocal destinations, set the transfer-pattern command under telephony-service. Using .T provides full wildcard matching for any number of digits.
To configure CME to use H.450.2 transfers, set transfer-system full-consult under telephony-service command mode. This will turn on H.450.2 and H450.12 services.

QUESTION 4
Which of the following dial peer configurations will allow International calls to be made outbound from a USA site?

A. dial-peer voice 1 pots
destination-pattern
9011. forward-digits all
port 1 0/0:15
B. dial-peer voice 1 pots
destination-pattern 9011T
prefix 011
port 1 0/0:23
C.   dial-peer   voice   1
voip   destination-pattern
9011T forward-digits all
port 1 0/0:23
D. dial-peer voice 1 voip
destination-pattern   9011
prefix 011
port 1 0/0:23

Answer: B
The 9011T signifies any and all digits after the 9011
A is incorrect because the "." in the destination pattern only signifies one more digit
C and D are incorrect since they are for VOIP calls.

QUESTION 5
You have created 5 ephone-dns with tags of 1-5. You wish to assign all 5 ephone-dns to a single button on an IP phone.
Which of the following is a valid configuration?

A. Ephone 1 overlay
Mac-address 003c.0012.1234
Button 1: 1:2 1:3 1:4 1:5
B. Ephone 1
Mac-address 003c.0012.1234
Button 1:1,2,3,4,5 overlay

C. Ephone 1
Mac-address 003c.0012.1234
Button 1o1 1o2 1o3 1o4 1o5
D. Ephone 1
Mac-address 003c.0012.1234
Button 1o1,2,3,4,5

Answer: D
The "o" character replaces the ":" character for this command. The other answers are not using correct variables.

QUESTION 6
Which of the following is an 8 kbps codec?

A. G.711
B. G.723
C. G.726
D. G.729

Answer: D
G.711 = 64 kbps
G.723 = 5.3 / 6.3 kbps
G.726 = 32 kbps
G.729 = 8 kbps

QUESTION 7
You have configured four dual-line ephone-dns. You wish to set up a hint group for these ephone-dns. Which of the following commands should be used so that an incoming call does not hunt to the second channel of the ephone-dns?

A. no huntstop
B. huntstop
C. no hunstop channel
D. huntstop channel

Answer: D
The huntstop channel command prevents incoming calls from hunting on busy from the first virtual voice port channel to the second channel. It does not affect hunting between dial peers. It influences channel hunting only within the voice port.

QUESTION 8
Which three of the following statements about paging groups are true? (Choose three)

A. Ephones can only be assigned to one paging group.
B. Multicast paging groups conserve bandwidth.

C. Paging groups can only be configured from the CLI.
D. Two or more paging groups can be joined into a combined group.

Answer: A, B, D

QUESTION 9
You have developed a plan to install the NM-CUE hardware and software in a router. Examine the following steps.
What steps are missing from your plan? (Choose two)
Installation plan
Insert NM-CUE in an open NM slot.
Power up the router.
Verify that the CUE module is recognized by the router IOS.
Copy the CUE license files to FLASH memory.
Configure CUE.

A. Upgrade the router to the correct version of IOS, for the NM-CUE 12.3(4)T or higher.
B. Power down the router
C. Type *** at the command prompt to verify the MN-CUE is recognized.
D. Copy the CUE system files to main memory from FLASH prior to using the CUE installer tool.

Answer: A, B
Note: You need to upgrade to correct IOS version and need to power down the router before insert the CUE module in the router.

QUESTION 10
Which traditional telephony component runs from the CO to the home or small office?

A. trunk
B. tie-line
C. local loop
D. branch exchange

Answer: C

QUESTION 11
Voice users in a new VoIP network have been complaining about the poor quality of voice over the WAN. They claim that conversations seams to incur talker overlap in which talkers and listeners become unsynchronized and often find themselves speaking at the same time or both waiting for the other to speak.
Which two actions could you take that would most likely resolve the problem? (Choose two)

A. Increase the link speed.
B. Enable fragmentation on the WAN link.
C. Enable RTP header compression on the WAN link.
D. Increase priority queue size.
E. Increase de-jitter buffer size.

Answer: B, C
Voice packets may be getting stuck behind large data packets, fragmentation will reduce the overall size of data packets so voice packets don't wait so long to be transmitted.
RTP header compression will reduce the total bandwidth needed for each voice call

QUESTION 12
All of your incoming calls are answered by the receptionist. You want the receptionist to be able to park the calls at extension 102 and make an announcement so an employee in the appropriate department can pick up the call. If no one picks up within 20 seconds, you want to notify the receptionist that a call is parked. You also want to notify the office manager at extension 2000.
Which of the following configurations will accomplish this?

A. ephone-dn 20
number 102
park-slot timeout 20 notify 2000 only
B. ephone-dn 20
park-slot 102 timeout 20 notify 2000 only
C. ephone-dn 20
number 102
park-slot notify 2000
timeout 20
D. ephone-dn 20
number 102
park-slot timeout 20 notify 2000

Answer: D
The "number 102" creates a single park-slot instance with number 102. The "park-slot timeout 20 notify 2000" sets the reminder interval to 20 seconds with no maximum number of reminders. Extension 2000 will be notified as well as the park originator.
Answer A was close but since it includes the keyword "only" in the park-slot command it is incorrect. The presence of "only" would mean that the reminder is only sent to extension 2000 and not to the receptionist as well.

QUESTION 13

What are two main purposes of QoS marking? (Choose two)

A. To sort traffic into different service classes for QoS treatment.
B. To signal network devices on which QoS mechanism should be employed to meet the requirements of a particular service class.
C. To set fields in IP packets and identify that packet as belonging to a specific class of service.
D. To allow edge devices to select the QoS level on an application-by-application basis.

Answer: A, C

QUESTION 14
What does the switch provide to the Cisco IP phone via Cisco Discovery Protocol when the IP phone power up?

A. voice VLAN ID (WID)
B. native VLAN ID (NVID)
C. priority VLAN (PVAN)
D. IP address

Answer: A
IP Phones have a bootup sequence. The very first step in the sequence is to send a CDP message to discover the voice virtual LAN information from the switch. The IP Phone then sends a broadcast DHCP request and should receive an IP address, default gateway and TFTP server information. The IP Phone then requests a file from the TFTP server which includes, among other things, the IP address of the CME router. The IP Phone then sends a registration request to the CME router and subsequently receives the phone configuration from this router.

QUESTION 15
Which four items must be verified if you are unable to use the GUI interface to configure CUE? (Choose four)

A. The IP address of the router.
B. The HTTP server configured on the router and pointed to use router flash as the page location.
C. SIP dial-peers to route calls to CUE.

D. IP address of the service engine.

E. NTP server setup.

F. A static route to CUE.

Answer: A, B, D, F

Explanation:

D not C: Because SIP dial-peers has no effect to connect to CUE using Gui interface.

The dial-peers route and NTP have no bearing on this question.

Refer to Cisco Unity Express GUI Administrator Guide for

Cisco CallManager Express Release 2.1 page 11 for explanation of above.

QUESTION 16

What is "trusted" when the auto qos voip command is configured with the "trust" parameter?

A. source address

B. MAC address of sender

C. DES keyword

D. DSCP

Answer: D

QUESTION 17

How are Cisco CallManager Express files loaded to flash?

A. Copied from a tftp or ftp server.

B. Pushed via an html link.

C. Loaded directly from CD-ROM.

D. On a modular, plug-in flash card.

Answer: A

QUESTION 18

You have been asked to configure an FXS port on a voice enabled router. Which commands will be necessary to configure port 1/0/0 to support ground start signaling, ring cadence for Germany, ring frequency of 25hz., calling name James Switch, and a calling number of 408-555-1212?

A. voice-port 1/0/0

signal   ground-

start cptone DE

ring frequence 25

station id name James Smith

station number 4085551212

B. voice-port 1/0/0

description extension 555-1212, James Smith

signal ground-start

ring cadence DE
ring frequency 25
station id name James Smith
Station number 4085551212
C. voice-port 1/0/0
description extension 555.1212, James Smith
ring cadence Germany
ring frequency 25
station id name James Smith
station id number 5551212
D. voice-port 1/0/0
description extension 555-1212, James Smith
signal ground-start
cptone Germany
ring frequency 25
station-id name James Smith
station-number 4085551212

Answer: A

QUESTION 19
Which of the following are benefits of the auto assign command? (Choose two)

A. Eliminates the need to configure ephones.
B. Eliminates the need to configure ephone-dns.
C. Can restrict auto registration by phone model.
D. Automatically configures shared lines.

Answer: B, C
CME 3.1 Admin Guide Page 50
Setting Up Phones in a CME System Partially Automated Setup Using Router CLI
Auto assign command is used to specify a range of ephone-dns to which newly discovered IP phones are
automatically assigned
You can restrict a particular type of ephone to a certain range of extensions.
Restrictions
Auto assignment cannot be used to define ephone-dn tags for Cisco IP Phone
Expansion module 7914Auto assignment cannot create shared lines

QUESTION 20
Which two system parameters are correct in the creation of a personal mailbox? (Choose two)

A. A personal mailbox can only be a member of one group.
B. The user must be defined in the local CME.
C. The user can reside in any network-attached CME.
D. The user can have multiple personal mailboxes in multiple groups.
E. There can be only one mailbox per subscriber.

Answer: B, E
Mailboxes are assigned to an IP telephone under the control of the Cisco CME
system that resides on the same router as the Cisco Unity Express module. IP telephones under the control of
Cisco CME on another router need their own on-site Cisco Unity Express application.