Exam : 350-030

Title : CCIE Voice Written

Ver : 11.09.04

Total Question 106

QUESTION 1
You are a network technician at Certkiller . Your newly appointed Certkiller trainee asks
you what three elements make up the MQC.
What will your reply be?

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

Answer: A

QUESTION 2
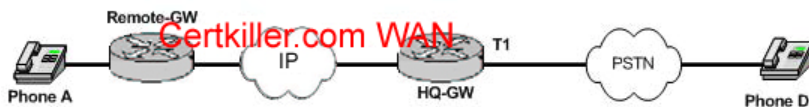What is the default fax relay connection rate?

A. 14400 bps
B. 7200 bps
C. 9600 bps
D. 28800 bps
E. 11000 bps

Answer: B
14400 for G711, 7200 for G729. G729 is default codec

QUESTION 3
You are the network administrator at Certkiller . The Certkiller WAN is shown in the
following exhibit:

The remote Certkiller user at Analog Phone A tries to make a call to Analog Phone D.
The call is rejected. You troubleshoot the problem and discover that the ISDN Plan and
Type that the PSTN was receiving was not setup correctly. The PSTN was expecting the
following:
Plan: Unknown
Type: Unknown
While the PSTN was receiving the following:
Plan:ISDN
Type: Unknown
Which methods will resolve this problem?

A. Use the isdn map command on the POST dialpeer on Remote-GW.
B. Use the isdn map command on the VOIP dialpeer on HQ-GW.

C. Use the isdn map command on the POTS dialpeer on HQ-GW.
D. Implement an outgoing translation rule on the VOIP dialpeer on HQ-GW.
E. Use the isdn map command on the VOIP dialpeer on Remote-GW.

Answer: E

Explanation:
The isdn map command is used to override the default ISDN type and plan generated by the router which has custom values. To undo the changes you made with the isdn map command use the following command:
isdn map {address address | regexp | plan plan | type type}
no isdn map {address address | regexp | plan plan | type type}
Syntax Description
address address   Address map, which can be to the calling, called, or redirecting number.
regexp   Regular expression for pattern matching.
plan plan   ISDN numbering plan.
type type   ISDN number type.

QUESTION 4
You are contracted as a network administrator for a small company, Certkiller Inc.
Your newly appointed Certkiller trainee wants to know
What settings have to be in place in order to pass hook-flash on h.323 from FXS to FXO:
What will your reply be?

A. connection plar must be configured on the voice-port (FXS)
B. connection trunk must be configured on the voice-port (FXS) and (FXO)
C. connection plar must be configured on the voice-port (FXS)
D. connection trunk must be configured on the voice-port (FXS) and (FXO)
E. connection plar must be configured on the voice-port (FXS) and (FXO)

Answer: E
IP TELEPHONY / VOIP, Configuring Hookflash Relay on FXS/FXO Voice Ports The
Following link will provide you with information on IP TELEPHONY / VOIP, Configuring
hookflash Realay onFXS/FXO Voice Ports
http://www.cisco.com/en/US/tech/ CK6 52/ CK7 01/technologies_configuration_example09186
a008009431b.shtml

QUESTION 5
You are contracted as a network administrator for a small company, Certkiller Inc.
Your newly appointed Certkiller trainee wants to know
What combination will give him the best video quality using a 128kbs video conference
call?
What will your reply be?

A. H.263 video and G.728 audio
B. H.261 video and G.728 audio

C. H.263 video and G.711 audio
D. H.261 video and G.711 audio
E. H.263 video and G.722 audio

Answer: A

QUESTION 6
You are a network administrator at Certkiller . Your newly appointed Certkiller trainee
wants to know how many different types of devices can register with a Cisco
CallManager.
What will your reply be?

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

Answer: D
CIPT Solution Reference Network Design 6-3

QUESTION 7
You are a network administrator at Certkiller and your newly appointed Certkiller
trainee wants to know from you what is considered to be a node on a H.323 network?
What will your reply be?

A. Proxy.
B. None of available options.
C. Gateway.
D. Options A, C.
E. Gatekeeper.
F. All of the above.

Answer: F

QUESTION 8
You are a network administrator at Certkiller , Inc. Certkiller runs a centralized
Automatic Message Accounting (CAMA) trunk that allows enterprise voice GW
connectivity to the North American (911) services of the PSTN.
A newly appointed Certkiller trainee wants to know what the difference between CAMA
trunk signalling and FXO trunk signalling are.
What will your reply be?

A. They do not differ in basic signaling, but CAMA is used exclusively for 911 calls,
while FXO is used for general PSTN calls.
B. FXO allows for dialed digit delivery, while CAMA does not.

C. CAMA provides for dialed digit delivery, while FXO does not.
D. CAMA provides for ANI digit delivery, while FXO does not.
E. CAM supports only loopstart, while FXO supports ground- and loopstart.

Answer: A
CIPT Solution Reference Network Design 6-3

QUESTION 9
You are a network administrator at Certkiller . Your newly appointed Certkiller trainee
wants to know how a H.323 proxy Gatekeeper Request (GRQ) Registration, Admission,
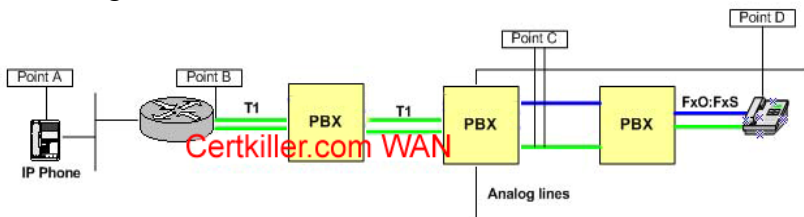and Status (RAS) message is sent and by which endpoints.
What will you tell your trainee? (Choose all that apply.)

A. Gateway.
B. H.323 Terminal.
C. Proxy.
D. Gateway.
E. Firewall.

Answer: A, B, C

QUESTION 10
You are a network administrator at Certkiller . The Certkiller network is shown in the
following exhibit:

With reference to the exhibit, what section of the voice path represents the Tail Circuit?

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

Answer: C
Reference:
1. Cisco IP troubleshooting P416
2. http://www.cisco.com/en/US/tech/ CK6 52/ CK6 98/technologies_tech_note09186a0080
149a1f.shtml

QUESTION 11
You are a network administrator at Certkiller . Certkiller has recently joined a ISP that
offers debit card calling from the US to other locations around the world where they

only have FXO connectivity to the PSTN. The Certkiller network is shown in the following exhibit:

It is crucial to the ISP to ensure that their consumers are not charged for the call unless the call successfully reached the called party in the PSTN.
Which of the following design requirements will achieve the ISP's desired results?

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

Answer: E

QUESTION 12
You are a network administrator at Certkiller . Your newly appointed Certkiller trainee wants to know what is NOT a primary cause of echo in a voice network.
What will your reply be?

A. Delay in the IP Network.
B. Acoustical Reflections.
C. 4 wire to 2 wire Hybrids.
D. Packet Loss in the IP Network.
E. All of the above.

Answer: D

QUESTION 13
You are a network administrator at Certkiller . You have been instructed to select the correct SMDI packet from the options below:
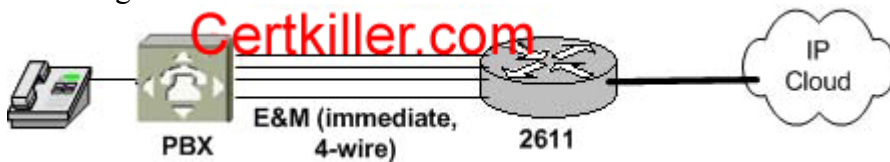Select the correct SMDI packet:

A. MVI010001N0002222 000112324
B. MD0010001A0002222 000112324
C. MC0010001D0002222 00012324
D. ND0010001A0002222 00012324
E. RD0010001B000222 00012324

Answer: B

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_note09186a0080 0a8956.shtml

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QUESTION 14

You are the network administrator at Certkiller . The Certkiller network is shown in the following exhibit:

The PBX does not receive the initial few digits from the IP side of the 2611 network. What should you do?

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

Answer: D
TELEPHONY SIGNALING, Understanding and Troubleshooting Analog E&M Start Dial Supervision Signaling
http://www.cisco.com/en/US/tech/ CK6 52/ CK6 53/technologies_tech_note09186a0080093f61. shtml

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QUESTION 15

You are a network administrator at Certkiller . You want to troubleshoot a FailSafe problem in Unity. Where should you look for detailed error messages?

A. In the Application.Log.
B. On the Status Monitor.
C. In the Tempu.log.
D. In the SDL Trace.
E. In the System.log.

Answer: A

QUESTION 16

You are a network engineer at Certkiller . The Certkiller network is shown in the following exhibit:

You have just configured the Catalyst 6000 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
We assume that the IP Phone is connected to port 5/1, which of the following statements are true?

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

Answer: A, B, C
set port qos trust
http://www.cisco.com/univercd/cc/td/doc/product/lan/cat6000/sw_7_2/cmd_ref/set_po_r.htm#39814

QUESTION 17
You are a network engineer for Certkiller , Inc. Your newly appointed Certkiller trainee asked you about the perspective of the CallManager. In particular, she wants to know which device the Unity TSP looks and behaves mostly like.
What will your reply be?

A. A TAPI Device
B. A MGCP Gateway
C. A Cisco IP Phone
D. A H.323 Gateway
E. A CTI Port

Answer: A

QUESTION 18
Which of the following statements is an attribute of ISDN Non-Facility Associated Signaling (NFAS)?

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

Answer: D
Voice Enabling the Data Network; Durkin: Cisco Press p124

QUESTION 19
You are a network administrator at Certkiller . Your newly appointed Certkiller trainee
wants to know what type of signaling provides Dialed Number Information Service
(DNIS) on a T1/E1.
What will your reply be?

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

Answer: D
TELEPHONY SIGNALING, Understanding How Digital T1 CAS (Robbed Bit Signaling)
Works in IOS Gateways
http://www.cisco.com/en/US/tech/ CK6 52/ CK6 53/technologies_tech_note09186a00800e2560.
shtml

QUESTION 20
Which of the following is the best configuration for provisioning for VoIP at the WAN
Edge?

A. !
version 12.2
!
class-map match-all VOICE
match ip rtp 16384 32767
class-map match-all VOICE-CONTROL
match protocol skinny
!
policy-map WAN-EDGE
class VOICE
 low-latency queuing 33 percent
class class-default
weighted-fair-queue
!
B. !
version 12.2
!
class-map match-all VOICE
match ip rtp 16384 32767
class-map match-all VOICE-CONTROL
match protocol skinny
!

policy-map WAN-EDGE
class VOICE
 low-latency queuing 33 percent
class class-default
weighted-fair-queue
!
C. !
version 12.2
!
class-map match-all VOICE
match ip dscp 45
class-map match-all VOICE-CONTROL
match ip dcsp 26
!
policy-map WAN-EDGE
class VOICE
priority queue 33 percent
class VOICE-CONTROL
bandwidth queue 2 percent
class class-default
!
D. !
version 12.2
!
class-map match-all VOICE
match ip dscp 5
class-map match-all VOICE-CONTROL
match ip dscp 3
!
policy-map WAN-EDGE
class VOICE
priority percent 33
class VOICE-CONTROL
bandwidth percent 2
class class-default
!

Answer: A

QUESTION 21
You are a network administrator at Certkiller . Your newly appointed Certkiller trainee
wants to know what protocol IP Phone uses to learn the Voice VLAN ID it should use
for Voice traffic.
What will your reply be?

A. Skinny Station Protocol

B. 802.1q
C. LLQ
D. VTP
E. CDP

Answer: E

QUESTION 22
You are a network administrator at Certkiller . Your newly appointed Certkiller trainee
wants to know how much Layer 3 is required for Call Control on an IP Phone on
average.
What will your reply be?

A. 2 kbps
B. 8 bps
C. 16 kbps
D. 120 bps
E. 150 kbps

Answer: E
CIPT Solution Reference Network Design 2-5

QUESTION 23
Migrating form TDM voice requirements to VoIP usually does not cause migration
issues for customers who expect to be:

A. Deploying in a Green-Field scenario.
B. Fully IP in 1 to 3 years.
C. Fully IP within 12 months.
D. All of the above.

Answer: A

QUESTION 24
You are the technician at Certkiller . Your newly appointed Certkiller trainee wants to
know what could cause a user to hear echoes of her own voice.
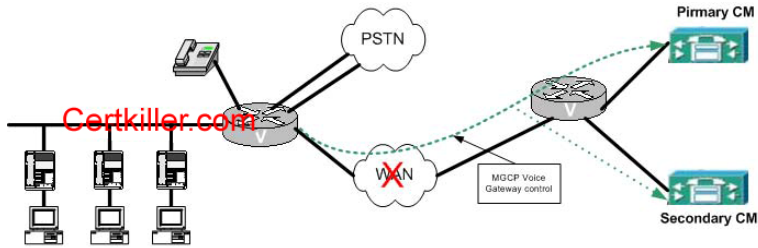What will your reply be? (Choose all that apply.)

A. Mismatch in impedance in the hybrid transformer.
B. Gain in local loop.
C. ERL is low at the trail circuit.

Answer: A, B, C

QUESTION 25
You are the network administrator at Certkiller . Certkiller has a CM network deployed

with MGCP to the branch office GWs. The Certkiller network is shown in the following exhibit:

You want to protect the protect branch office telephony (IP phone to IP Phone, and IP Phone to PSTN) in the event of a WAN failure.
Which design methods could you implement? (Choose all that apply.)

A. SRST
B. MGCP gateway fallback
C. CM clustering
D. Primary and Secondary CMs
E. CAC

Answer: A, B

QUESTION 26
You are a network engineer at Certkiller . Certkiller has a voice gateway that is receiving calls from infinite sources (PSTN callers) during the busy hours when lost calls should be cleared (blocked).
What typical traffic model is required to dimension the number of gateway ports/trunks?

A. Erlang-B
B. B and C
C. Erlang-C
D. Poisson
E. None of the above.

Answer: A
Answer is Extended Erlang B - Deploying Cisco Voice over IP Solutions; Davidson; Cisco Press p15

QUESTION 27
Your newly appointed Certkiller trainee wants to know by you what CallManager uses a Calling Search Space for.
What will your reply be?

A. To restrict calls to a particular range of numbers.
B. To enable the use of E911 services.
C. To enable the use of an overlapping dial plan.
D. To provide access-list-like security.

E. All of the above.

Answer: E
CIPT Solution Reference Network Design Chapter 7

QUESTION 28
You are a network administrator at Certkiller . You want to configure
an AS5300 to authenticate Certkiller users for Authentication, Authorization, and
Accounting (AAA) RADIUS server by prompting the user for a PIN number, etc. You
want AS5300 to use application clid_authen_collect. Certkiller users are currently
dialing 9592000.
What configuration should you use?

A. dial-peer voice 1 pots
destination-pattern 9592.....
port 0:D
application clid_authen_collect
B. dial-peer voice 1 pots
destination-pattern 2.....
port 0:D
application clid_authen_collect
C. dial-peer voice 1 pots
incoming called number 9592000
destination-pattern 2.....
port 0:D
application clid_authen_collect
D. dial-peer voice 1 pots
incoming called-number 959....
destination-patern 2.....
port 0:D
application clid authen collect

Answer: D
Cisco IOS Voice Commands, application
http://www.cisco.com/univercd/cc/td/doc/product/software/ios122/122newft/122tcr/122tv
r/vrg_a1.htm#1492881

QUESTION 29
Your newly appointed Certkiller trainee wants to know what percent of a standard
G.711 packet is taken by IP, UDP and RTP headers when cRTP is not used.
What will your reply be?
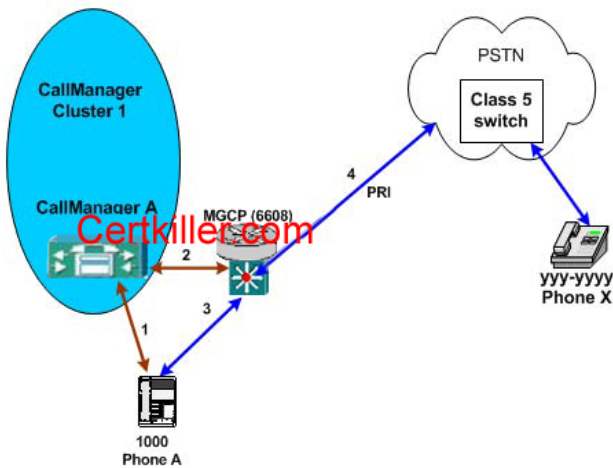
A. 15%
B. 20%
C. 25%
D. 33%

E. 45%

Answer: B
G711 payload is 160 bytes and IP; UDP & RTP headers total 40 bytes

QUESTION 30
You are the network administrator at Certkiller . The Certkiller Voice network is shown
in the following exhibit:

The default gateway in the Certkiller network is a 6608 blade that is running MGCP.
Call Manager runs version 3.1. Certkiller users will make calls from Phone A to Phone
X. All IP streaming is G.711. Each of the logical links in the Certkiller network carries
different types of traffic.
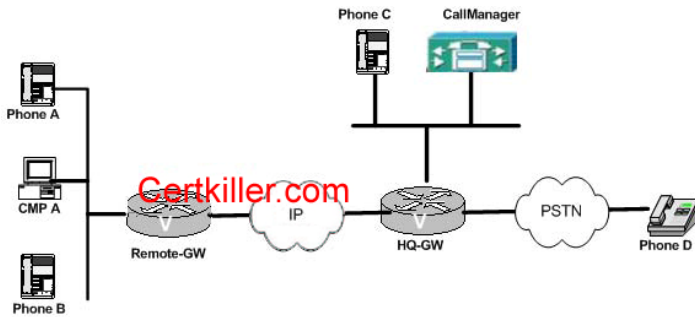On which link can Skinny (SCCP) traffic be seen?

A. 1 only
B. 1 and 2
C. 1, 3, and 4
D. 2, and 3
E. 2, 3, and 4

Answer: A
Skinny is only used between CCM and IP phone

QUESTION 31
You are the network administrator at Certkiller . The Certkiller Voice network is shown
in the following exhibit:

A Certkiller user at Phone A complains about a persistent echo on calls to the PSTN. The ERL has been determined to be 15db. The configuration on the HQ-GW voice T1 is as follows:
voice-port 1/0:15
 echo-cancel coverage 8
end
What should be done resolve this problem?

A. Increase the echo tail coverage
B. Decrease the NLP threshold
C. Decrease the output gain
D. Increase the input gain
E. Increase the output gain

Answer: A
Cisco IOS Voice, Video, and Fax Commands, echo-cancel coverage
http://www.cisco.com/univercd/cc/td/doc/product/software/ios122/122newft/122tcr/122tv
r/vrg_e1.htm#998290

QUESTION 32
You are a network administrator at Certkiller . Your newly appointed Certkiller trainee wants to know what the following SMDI packet represents:
MD0010013D 0002215
What will your reply be?

A. MWI OFF commands for extension 2215
B. A "Call Forward No Answer" extension 2215 from extension 10013
C. MWI ON command for extension 2215
D. A "Forward All Calls", extension 10013 calling 2215
E. Extension 2215 calling into voicemail on port 13

Answer: E
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_note09186a0080
0a8956.shtml

QUESTION 33
You are a network engineer at Certkiller , Inc. Your newly appointed Certkiller trainee

wants to know what SMDI message from CallManager CMI or VG248 allows a Voicemail system to provide a "Hearth-beat" function on a RS-232 serial link.
What will your reply be?

A. MWI INV
B. MWI BLK
C. OP:MWI
D. None of the above

Answer: C
Configuring CallManager 3.x for Integration to Voice Mail Systems via SMDI
http://www.cisco.com/en/US/products/sw/voicesw/ps556/products_configuration_exampl
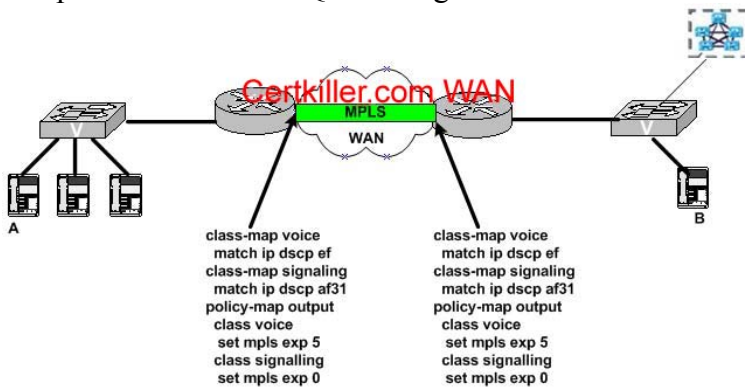e09186a0080160b6f.shtml

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QUESTION 34
On which of the following does the maximum device weight capacity a Cisco MCS server depend? (Choose all that apply)

A. The quantity and the type of phones configured on the Cisco MCS server.
B. CCM software release version.
C. The amount of memory, CPU and I/O throughput.
D. The server model and type.

Answer: B, C, D

QUESTION 35
You are the network administrator at Certkiller . The Certkiller network and the complete MPLS router QoS configuration is shown in the following exhibit:


```
class-map voice
  match ip dscp ef
class-map signaling
  match ip dscp af31
policy-map output
  class voice
    set mpls exp 5
  class signalling
    set mpls exp 0
```

```
class-map voice
  match ip dscp ef
class-map signaling
  match ip dscp af31
policy-map output
  class voice
    set mpls exp 5
  class signalling
    set mpls exp 0
```

The LAN switches (and any other equipment in the cloud) do not mark or remark the packets.
With regard to the QoS configuration in the exhibit, when IP Phone A calls IP Phone B, how will the voice and signalling packets be marked by the time they arrive at IP Phone B?

A. Voice: IP Precedence 5; Signaling 3
B. Voice: DSCP AF; Signaling: DSCP EF31

C. Voice: IP Precedence 5; Signaling: 0
D. Voice: DSCP EF; Signaling: DSCP AF31
E. Voice: DSCP EF; Signaling: 0

Answer: D
The DSCP field remains unchanged in the entire process

QUESTION 36
What weighting are packets destined for the PQ given when PQ-WFQ is configured on an interface?

A. 1024
B. 56
C. 12
D. 0

Answer: D
http://www.cisco.com/en/US/tech/ CK6 52/ CK6 98/topic1

QUESTION 37
You are a network administrator at Certkiller . Your newly appointed Certkiller trainee
Wants to know what, according to Cisco's design guide, is the typical bandwith needed
for a single VoIP call (including layer 2) when using a g.729 codec, and no header
compression.
What will your reply be?

A. 64 Kbps
B. 32 Kbps
C. 16 Kbps
D. 8 Kbps
E. 4 Kbps

Answer: B
Actually for Ethernet it is 29.6kbps

QUESTION 38
You are the technician at Certkiller . Your newly appointed Certkiller trainee wants to
know what command would enable CRTP.
What will your reply be?

A. ip crtp compress
B. ip rtp compress stac
C. ip crtp compress stac
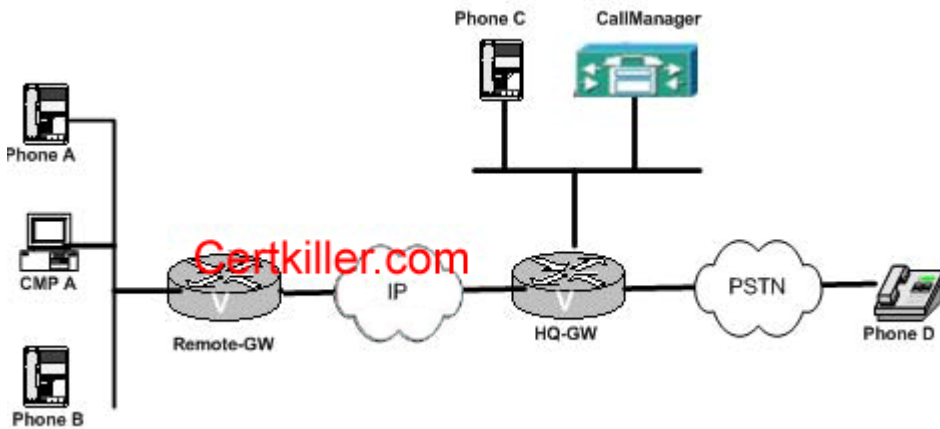D. ip rtp header-compression
E. ip crtp header-compression

Answer: D
To enable Real-Time Transport Protocol (RTP) header compression, use the ip rtp headercompression command in interface configuration mode.
http://www.cisco.com/univercd/cc/td/doc/product/software/ios123/123tcr/123tqr/qos_i1gt
.htm#1133081

QUESTION 39

You are the network administrator at Certkiller . The Certkiller network is shown in the following exhibit:

A Certkiller user at PhoneA has finished a call. He later that "CM Fallback Service Operating" is displayed on Phone A.
What is the possible cause of this?

A. The TCP connection between CallManager and PhoneA has been disrupted.
B. The FE on HQ-GW is out of service.
C. The FXO port on Remote-GW is out of service.
D. The FE and Remote-GW is out of service.
E. Remote-GW has not received any messages from CallManager within the timeout period.

Answer: A, B
VOICE SOLUTIONS FOR BRANCH/SMALL OFFICE, Highly Available IP Communications White Paper
http://www.cisco.com/en/US/netsol/ns340/ns394/ns346/ns383/net_value_proposition0918
6a00801c6097.html

QUESTION 40

You are a network administrator at Certkiller . The Certkiller Voice network is configured as follows:
• Phone A's device calling search space is CSS_Dev_A.
• Phone A's Line 1 is assigned calling search space CSS_Line_A
• Route Pattern 2XXX is placed in Partition Part_1.
• Route Pattern 20XX is placed in Partition Part_2.
• Route Pattern 200X is placed in Partition Part_3.
• CSS_Dev_A contains partition(s) Part_1.

• CSS_Line_A contains partition(s) Part_2.
If a call is made to 2001 from Phone A, using Line1, what route pattern will be used by
Call Manager?

A. 200X in partition Part_3.
B. 20XX in partition Part_2.
C. 2XXX in partition Part_1.
D. None of the above.

Answer: B

QUESTION 41
What is the traffic model typically used when dimensioning call center agents receive
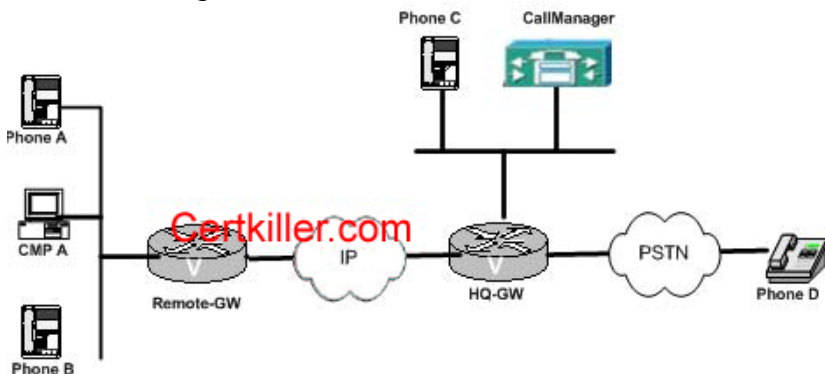calls from infinite sources (PSTN callers) where call are queued during the busy hour?

A. Erland-B
B. Erland-C
C. Binomial
D. Extended Erlandg-B
E. Engset

Answer: A
Deploying Cisco Voice over IP Solutions; Davidson; Cisco Press p16

QUESTION 42
You are the network administrator at Certkiller . The Certkiller Voice network is shown
in the following exhibit:

Everything in the Certkiller Voice network is under your control except for the PSTN.
The Certkiller user at IP Phone A complains of a persistent echo during all calls from IP
Phone A to Analog Phone D.
What would be the best way to resolve this echo issue?

A. Adjust the Echo Cancellation parameters on Phone D.
B. Adjust the Echo Cancellation parameters on HQ-GW.
C. Adjust the Echo Cancellation parameters on Phone A.
D. Adjust the Echo Cancellation parameters on Remote-GW.

E. Adjust the Echo Cancellation parameters on CallManager.

Answer: B

QUESTION 43
When using a Cisco Inline-Power Patch-Panel, which pins are used to supply Inline-Power to the IP Phone?

A. Pins 1, 2, 3, and 6
B. Pins 1, 2, 5, and 6
C. Pins 2, 4, 6, and 8
D. Pins 3, 4, 7, and 8
E. Pins 4, 5, 7, and 8

Answer: E
CISCO NETWORK MODULES, Catalyst Inline Power Patch Panel
http://www.cisco.com/en/US/products/hw/modules/ps2797/products_data_sheet09186a00
800a9ea3.html

QUESTION 44
What is a DPA (Digital PBX Adapter) used for?

A. To allow a customer to network VoiceMail systems and PBX together.
B. To enable Calling-Name between CallManager and Meridian Mail systems.
C. To connect an Octel 200/300/250/350 to CallManager.
D. To connect CallManagerr to PBX.
E. None of the above.

Answer: C
CISCO DPA 7600 SERIES GATEWAYS
http://www.cisco.com/en/US/products/hw/gatecont/ps821/index.html

---

QUESTION 45
You are a network administrator at Certkiller . Your newly appointed Certkiller trainee
wants to know what the proper configuration for VoIP authentication via
Authentication, Authorization, and Accounting (AAA) is.
What will your reply be?

A. aaa new-model
aaa authentication login voip radius
B. aaa new-model
aaa authentication login h225 radius
C. aaa new-model
aaa authentication h323 login radius
D. aaa new-model
aaa authentication login default radius

E. aaa new-model
aaa authentication login h323 radius

Answer: A
http://www.cisco.com/univercd/cc/td/doc/product/software/ios123/123cgcr/secur_r/sec_a
1g.htm#18239

QUESTION 46
When using an Inline_power enabled Catalyst Switch, which pins are used to supply
Inline-Power to an IP Phone?

A. Pins 1, 2, 3, and 6
B. Pins 1, 2, 5, and 6
C. Pins 2, 4, 6, and 8
D. Pins 3, 4, 7, and 8
E. Pins 4, 5, 7, and 8

Answer: A
CISCO CATALYST 4000 SERIES SWITCHES, Cisco Catalyst 4000 Series Inline Power
Solution
http://www.cisco.com/en/US/products/hw/switches/ps663/products_data_sheet09186a008
00924d0.html

QUESTION 47
You are a network administrator at Certkiller . Your newly appointed Certkiller trainee
wants to know what protocol an IP Phone uses to learn the IP Address of its TFTP
Server.
What will your reply be?

A. CDP
B. OSPF
C. HSRP
D. EIGRP
E. DHCP

Answer: E

QUESTION 48
What does CallManager use the concept of Location for?

A. To define groups of devices based on physical location, in order to assign Primary and
Backup CallManager servers.
B. To group devices based on physical location, in order to delegate Administrative
Control.
C. To define the CODEDC to be used between two devices separated by a WAN link.
D. To define the bandwidth that can be used between two devices.

Answer: D
CIPT Course v3.3 p3-98

QUESTION 49
You are a network administrator at Certkiller . Your newly appointed Certkiller trainee
wants to know why PRI is the preferred method for inter-connecting CallManager3.2
and below to PBX's.
What will your reply be? (Select two.)

A. It allows a customer to share their exiting Meridian Mail system with CallManager
subscribers whilst delivering full functionality.
B. It provides Caller ID functionality.
C. It is the most cost effective solution available.
D. It offers the highest level of inter-operability between CallManager and PBX's.
E. It allows a customer to share their exiting VoicewMail system with CallManager.

Answer: C, D

QUESTION 50
You are a network administrator at Certkiller . Your newly appointed Certkiller trainee
wants to know what SIP header a SIP Proxy is allowed to change.
What will your reply be?

A. The To header.
B. The Request-URI.
C. The Contact header.
D. The From header.

Answer: B
CISCO SIP PROXY SERVER, F Call-Flow Scenarios
http://www.cisco.com/en/US/products/sw/voicesw/ps2157/products_administration_guid
e_chapter09186a00801a1d94.html

QUESTION 51
When is it possible for two Unity Servers to be placed in the same Dialing Domain?
(Select two.)

A. When they are attached to the same PBX.
B. When they are both assigned the same location ID.
C. When they do not have to dial trunk access codes to reach each other's subscribers.
D. When their subscribers do not have overlapping extensions.
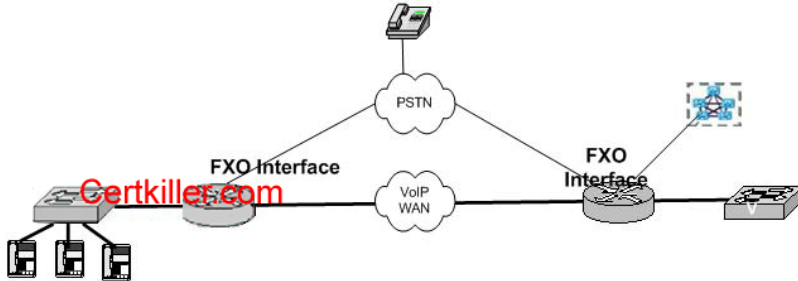E. When they are in the same Exchange Site/Routing Group.

Answer: A, D
CISCO UNITY, Network Settings

http://www.cisco.com/en/US/products/sw/voicesw/ps2237/products_administration_guid
e_chapter09186a00801ba7bb.html

QUESTION 52
You are the network administrator at Certkiller . The Certkiller network is shown in the
following exhibit:

You want to implement Caller ID for calls from PSTN to the IP Phones. Analog trunks
are equipped to the PSTN from both the GWs. The PSTN CO switch is capable of
delivering Caller ID on the connection to the Cisco voice GW. The Cisco voice gateway is
using a VIC-2FXO-M1 card.
What would be the correct voice GW design?

A. None. Caller ID is not supported on analog FXO.
B. GW connected via SCCP to the CallManager.
C. GW must be a 2600/3600/3700 series platform.
D. GW connected via MGCP to the CallManager.
E. GW connected via H.323 to the CallManager.

Answer: E

QUESTION 53
You are a network administrator at Certkiller . Your newly appointed Certkiller trainee
wants to know which fields in the output from show active voice command indicates
that packet loss is occurring.
What will your reply be? (Select one.)

A. The Receive delay field.
B. The High Water playout delay field.
C. The Low Water playout delay field.
D. The Interarrival packet rate field.

Answer: A
VOICE QUALITY, Using the show call active voice Command to Troubleshoot Voice
Quality Issues
http://www.cisco.com/en/US/tech/ CK6 52/ CK6 98/technologies_tech_note09186a008019ab88.
shtml

QUESTION 54
Your newly appointed Certkiller trainee wants to know what type of signaling can

provide automatic Number Identifications (ANI) on a T1/E1 line.
What will your reply be?

A. E&M-fgd
B. Loop Start
C. PRI
D. E&M-fgb

Answer: A
TELEPHONY SIGNALING, Understanding How Digital T1 CAS (Robbed Bit Signaling)
Works in IOS Gateways
http://www.cisco.com/en/US/tech/ CK6 52/ CK6 53/technologies_tech_note09186a00800e2560.
shtml

QUESTION 55
You are a network administrator at Certkiller . You are troubleshooting an IOS Voice
Gateway. Which command will produce detailed information about the codec, ERL,
tx/rx packets, and dial peers on the current active calls?

A. The show voice port command.
B. The show voice call command.
C. The show voice call active command.
D. The show call active voice command.

Answer: D
http://www.cisco.com/univercd/cc/td/doc/product/software/ios123/123tcr/123tvr/vrht_sh
1.htm#34981

QUESTION 56
You are a network administrator at Certkiller . The new Certkiller trainee wants to know
what Inter-Cluster communications signalling includes in a CallManager cluster.
What will your reply be? (Select two.)

A. Locations bandwith and Shared media resources.
B. Call detail records (CDR) database replication.
C. Registration of devices Locations bandwidth Shared media resources.
D. Device configuration replication.
E. None of the above.

Answer: A, C
CIPT Course v3.3 p1-37

QUESTION 57
Regardless of next-hop SIP device, what is the order in which CSPS will determine how
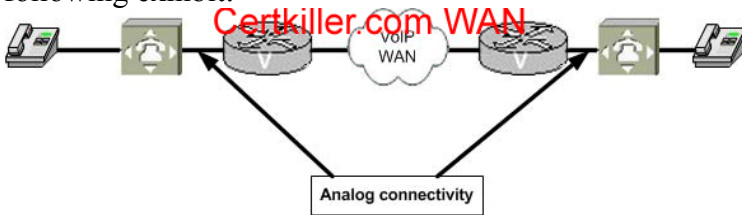to route the packet when you process a SIP message?

A. Static Routes, GKTMP, Registry, LRQ to H.323 Gatekeeper
B. Domain Routes, GKTMP, Registry, LRQ to H.323 Gatekeeper
C. Static Routes, GKTMP, LRQ to H.323 Gatekeeper, Registry
D. Registry, GKTMP, Static Route, LRQ to H.323 Gatekeeper

Answer: D
Cisco SIP Proxy Server Administration Guide p1-8

QUESTION 58
You are the network administrator at Certkiller . The Certkiller network is shown in the
following exhibit:

You want Caller ID be displayed for all phones connected to the PBXs, as well as for
calls going in both directions across the IP network. The PBXs only have analog (FXS,
FXO and E&M) capabilities to connect to the Cisco voice GWs.
What design will satisfy this requirement?

A. All of FXS, FXO and E&M, provided that the FXO cards support Caller ID.
B. 2-wire and 4-wire E&M.
C. 4-wire E&M and FXO.
D. FXS and E&M only.
E. None of the above.

Answer: A

QUESTION 59
What types of call processing functions do SRST preserve in a remote office in a CM
network? (Choose all that apply.)

A. IP Phone to VoiceMail transcoding services.
B. IP Phone to conference DSP resources.
C. IP Phone to GW calls.
D. IP Phone to IP Phone calls.
E. CTI applications such as IP SoftPhones.

Answer: A, C
CISCO CATALYST 4200 SERIES SWITCHES, Configuring Survivable Remote Site
Telephony
http://www.cisco.com/en/US/products/hw/switches/ps669/products_configuration_guide_
chapter09186a008007f1e1.html

QUESTION 60
You are a network administrator at Certkiller . Your newly appointed Certkiller trainee wants to know what the term "MGCP backhaul" means.
What will your reply be?

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

Answer: B
CISCO IOS SOFTWARE RELEASES 12.2 SPECIAL AND EARLY DEPLOYMENTS
http://www.cisco.com/en/US/products/sw/iosswrel/ps5012/products_feature_guide09186a
00801a8bc4.html

QUESTION 61
What factor determines the fragmentation size on a T1/E1 Frame Relay circuit?

A. Line speed.
B. Burst Count.
C. The Average CIR.
D. The minimum CIR.
E. The maximum CIR.

Answer: D
VOFR, Frame Relay Fragmentation for Voice
http://www.cisco.com/en/US/tech/ CK6 52/ CK6 92/technologies_tech_note09186a00801142de.
shtml

QUESTION 62
Certkiller has recently appointed a new trainee. The trainee wants to know what the target overall loss plan across a telephone network is.
What will your reply be?

A. 12dBm - 24dBm.
B. 8dBm - 16dBm.
C. 4dBm - 12dBm.
D. 0dBm - 8dBm.

Answer: D

QUESTION 63
You are a network administrator at Certkiller . Your newly appointed Certkiller trainee wants to know what a gatekeeper is.
What will your reply be? (Choose all that apply.)

A. A compulsory component in a H.323 system which provides call control services to the H.323 endpoints.
B. An optional component in a H.323 system which provides call control services to the H.323 endpoints.
C. A compulsory component in a SIP system which provides call control services to the H.323 and SIP endpoints.
D. Logically separate from the endpoints, but its physical implementation may coexist with a terminal, multipoint conference unit (MCU), gateway, multipoint controller (MP), or other non-H.323 LAN device.
E. An optional component in a SIP system which provides call control services to the H.323 and SIP endpoints.

Answer: B, D

QUESTION 64
You are a telephony trainee at Certkiller . The network administrator asks you what the advantage of Survivable Remote Site Telephony (SRST) design method is.
What will your reply be?

A. It enhances the availability of CM distributed call processing.
B. It enhances the availability of CM single site campus design.
C. It enhances the availability of CM tool bypass.
D. It enhances the availability of CM centralized call processing.

Answer: D

QUESTION 65
You are a network administrator at Certkiller . Certkiller has a H.323 network. Which of the following functions is NOT performed by the Gatekeeper on the Certkiller network?

A. Call routing
B. The Number to IP address translations
C. Call authorization
D. Call admission control
E. Codec negotiation

Answer: E

QUESTION 66
You are a network administrator at Certkiller . Your newly appointed Certkiller trainee wants to know what the differences between Type of Service (ToS) and Class of Service (CoS) are.
What will your reply be? (Choose all that apply.)

A. CoS allows a class based access to the media, but ToS prioritizes this access according

to the precedence bit.
B. CoS is a field in the IP header, but ToS is evaluated by the routing protocol.
C. CoS allows a class based access to the media, but ToS prioritizes this access according to the precedence bit.
D. CoS is a Layer 2 mechanism, but ToS is a Layer 3 mechanism.

Answer: A, D

QUESTION 67
Which of the following Cisco Products can produce SMDI packets?

A. A Cisco Unity.
B. A Cisco CallManager.
C. A Cisco VG200 Voice Gateway.
D. A Cisco VG248 Analog Phone Gateway.
E. All of the above.

Answer: A, B, D

QUESTION 68
On what is busy hour traffic for voice gateway port/trunk is based upon in a call center deployment? (Choose all that apply.)

A. Queue time.
B. Agent talk time.
C. Agent wrap up time.
D. Agent after call work time.
E. All of the above.

Answer: A, B

QUESTION 69
TCP receives a request to open a voice channel on port 1720 in a VoIP network. There is no Fast Start. For what purpose will a new TCP port automatically be allocated for?

A. H.225 call compression.
B. H.323 call compression.
C. G.726 call compression.
D. H.225 call setup negotiation
E. H.323 call setup negotiation.
F. H.245 capability exchange negotiation

Answer: D

QUESTION 70
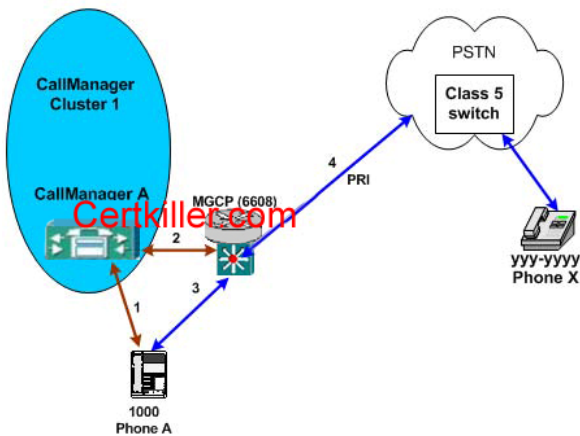You are a network administrator at Certkiller . You want to implement a standardsbased

protocol that will allow CallManager to seamlessly integrate with another
vendor's traditional PBX system. What protocol should you implement?

A. MGCP
B. QSIG
C. PRI NI-2
D. SRST
E. OSPF

Answer: D

QUESTION 71

You are the network administrator at Certkiller . The Certkiller network is shown in the
following exhibit:

The default gateway in the Certkiller network is a 6608 blade that is running MGCP.
Call Manager runs version 3.1. Certkiller users will make calls from Phone A to Phone
X. All IP streaming is G.711. Each of the logical links in the Certkiller network carries
different types of traffic.
On which link can q.921 traffic be sent?

A. 1 only
B. 2 and 3
C. 2 and 4
D. 3 and 4
E. 4 only

Answer: E

QUESTION 72

You are a network administrator at Certkiller . An IP Phone named Phone A is
configured with the extension 1500. Another IP Phone named Phone B is configured
with the extension 1501. What is the minimum configuration that will allow the two IP
Phones to contact each other?

A. Both phones must be on the same trunk.
B. Both phones must be assigned the same Calling Search Space.
C. Both phones extensions must be in the same partition.
D. None of the above.

Answer: C

QUESTION 73

Test Technologies and King, Inc recently merged to form Certkiller , Inc. You are appointed as the network administrator for Certkiller , Inc. An IP Phone from Test Technologies, named Phone A has been assigned to Calling Search Space
A. Calling
Search Space A contains the following partitions in the order shown, listed with their respective Routing Patterns:
Partition_A1, containing Route Pattern 1XXX
Partition_A2, containing Route Pattern 10XX
Phone A dials "1001". Which of the following statements is true?

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

Answer: D
http://www.cisco.com/en/US/products/sw/voicesw/ps556/products_administration_guide
_chapter09186a00800c2ef1.html#10870

QUESTION 74

You are a network administrator at Certkiller . Certkiller has a Cisco voice gateway that will be connected to a PBX/PSTN-switch via ISDN (PRI, QSIG, BRI).
Which attributes of the PBX/PSTN-switch must you know to understand which features to configure on the voice GW in order to connect successfully to the PBX/PSTN-switch?

A. Whether Q.921 or Q.931 is supported by the PBX/PSTN-switch.
B. Whether H.225 or H.323 is supported by the PBX/PSTN-switch.
C. Whether symmetric mode is supported by the PBX/PSTN-switch.
D. What PRI/BRI switch-type is supported by the PBX/PSTN-switch.
E. Whether the network or users side is supported by the PBX/PSTN-switch.

Answer: D, E

QUESTION 75
What are the most important functions of H.245? (Choose all that apply.)

A. It allows both sides of the call to perform IP address exchange and UDP port negotiations.
B. It provides Coder/Decoder (CODEC) type negotiation such as G.711, between the calling and the called parties.
C. It allows both sides of the call to perform IP port negotiation.
D. It allows both sides of the call to perform H.255 port negotiation.

Answer: B, C

QUESTION 76
Which of the following can AAA NOT be used for? (Choose all that apply.)

A. Administration
B. Authentication
C. Architecture
D. Admission
E. Security

Answer: A, C

QUESTION 77
You are a network administrator at Certkiller . Certkiller has a converged 512 Kbps MLP circuit. What set of commands will guarantee a maximum serialization delay of 15 ms on this circuit?

A. ppp multilink fragment 960
B. ppp multilink fragment 320
C. ppp multilink fragment 640
ppp multilink interleave
D. ppp multilink fragment-delay 15
ppp multilink interleave
E. ppp multilink fragment-delay 15

Answer: D
To disable packet fragmentation, use the ppp multilink fragment disable command in interface configuration mode.
http://www.cisco.com/univercd/cc/td/doc/product/software/ios123/123cgcr/dial_r/dia_n1 g.htm#1134762

QUESTION 78
What happens when configuration changes are made to the CCMAdmin page of a Subscriber CallManager?

A. The configuration changes are made locally in the SQL Database, and replicated in the publisher SQL Dayabase.
B. The configuration changes are made in the publisher SQL Database, and replication to subscribers.
C. The configuration changes are made locally in the SQL Database, and replicated up to the publisher immediately.
D. The configuration changes are made locally in the SQL Database, and replicated up to the publisher at the next scheduled replication.

Answer: B

QUESTION 79
You are a network administrator at Certkiller . Your newly appointed Certkiller trainee wants to know what the difference is between a route-group and a route-list.
What will your reply be?

A. Route-lists contain gateways for route-groups.
B. Route-group contains a list of route-patterns.
C. Route-lists contain a list of gateways.
D. Route-groups contain route-lists which points to the gateways.
E. Route-lists contain route-groups which point to the gateways.

Answer: E
CIPT Course v3.3 p3-22

QUESTION 80
You are a network administrator at Certkiller . Certkiller has a Unity3.0/ and Exchange 2000 system. Which of the following attributes will be stored in Active Directory?

A. Transfer Type (Supervised, Release to switch)
B. Location ID
C. Alternate Extensions
D. Recorded Name
E. All of the above

Answer: B, C, D

QUESTION 81
What happens when you use the Low Latency Queuing feature of the Cisco IOS?

A. All the data traffic is serviced by the PQ.
B. All the RTP traffic is serviced by the PQ.
C. All the RTP traffic is serviced by the CBWFQ.
D. All the data traffic is serviced using the CBWFQ.
E. None of the above.

Answer: B, D

QUESTION 82
You are a network administrator at Certkiller . You want to configure a T1 (1,536M) FR
PVC for voice and data traffic. You do not expect voice to require more than half the
bandwidth.
Which of the following would be the most sufficient FRTS configuration?

A. map-class frame-relay FRST-voice
frame-relay cir 1536000
frame-relay bc 15360
frame-relay be 0
frame-relay mincir 1536000
B. map-class frame-relay FRTS-voice
frame-relay cir 1536000
frame-relay bc 15360
frame-relay be 0
frame-relay mincir 768000

Answer: A

QUESTION 83
You are the network administrator at Certkiller . Your newly appointed Certkiller trainee
wants to know what MailStore options are supported in Unity version 2,4,6.
What will your reply be?

A. MS Mail
B. Domino
C. Exchange 2000
D. Exchange 5.5
E. None of the above

Answer: D
http://www.cisco.com/en/US/products/sw/voicesw/ps2237/prod_pre_installation_guide09
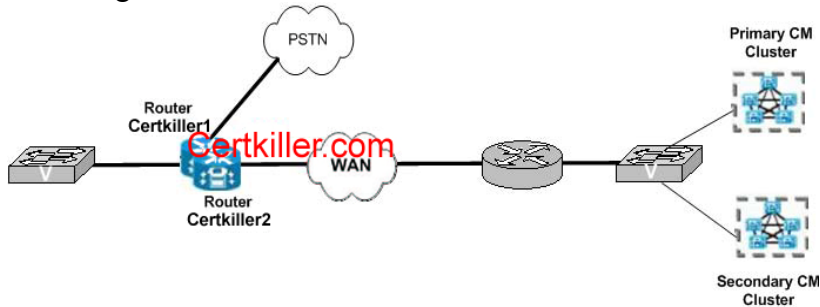186a00800ea54b.html#73967

QUESTION 84
Where can the Gatekeeper be when Gateways are registering with a Gatekeeper?

A. In a different subnet.
B. On a remote LAN.
C. On the same subnet.
D. On the same LAN.
E. Any of the options above.

Answer: E

QUESTION 85

You are the network administrator at Certkiller . Certkiller uses HSRP in conjunction with SRST to preserve the telephony functionality in a branch office as shown in the following exhibit:

Should a WAN failure occur while the primary router, Router Certkiller 1 is in use, Router Certkiller 1 should switch to SRST mode to preserve telephony functions. However, if Router Certkiller 1 also fails, the HSRP backup router, Router Certkiller 2, must become the active router for the branch office and must take over SRST and routing functions for the branch office.

What type of physical connectivity must you duplicate on Routers Certkiller 1 and Certkiller 2 to ensure that Router Certkiller 2 will be effective in running SRST for the branch office?

A. ISDN
B. PSTN
C. WAN
D. CMs
E. VLANs

Answer: B

QUESTION 86

With regard to echo, which of the following statements is false?

A. The term "ERL" refers to a measurement of the volume of Echo heard by the user.
B. Increasing the Echo-Cancellation coverage in an Echo Canceller may also increase Echo Canceller convergence time.
C. Analog components in the voice path causes echo.
D. Echo exists in a Circuit Switched environment, but usually goes unnoticed because of the flow delay.

Answer: A
Deploying Cisco Voice over IP Solutions; Davidson; Cisco Press p42

QUESTION 87
A newly appointed Certkiller trainee wants to know what protocol that H.255 utilizes a scaled-down version of is also used to set up the connection between two H.323 endpoints.
What will your reply be?

A. SS7
B. Q.921
C. Q.931
D. H.323
E. H.245

Answer: C

QUESTION 88
You are a network administrator at Certkiller . Your newly appointed Certkiller trainee wants to know what Network Management Server (NMS) application she can use to monitor Voice quality by polling the SNMP MIB for MQC.
What will your reply be?

A. Voice Health Monitor
B. Quality of Service Policy Manager
C. Internetwork Performance Monitor
D. Resource Manager Essentials
E. None of the above

Answer: B

QUESTION 89
Which of the following can generate 100 Erlangs during the busy hour? (Choose all that apply.)

A. 1 call per hour averaging 100 minutes.
B. 2000 calls per hour averaging 3 minutes each.
C. 3000 calls per hour averaging 2 minutes each.
D. 3000 calls per hour averaging 3 minutes each.
E. None of the above.

Answer: B, C

QUESTION 90
You are the network administrator at Certkiller . Certkiller has a Cisco IPCC deployment environment. CallManager is the routing client.
In the Certkiller network, perform what function will the ICM upon the receiving a call? (Choose all that apply.)

A. ICM plays pre-recorded announcements for callers waiting in queue if no agents are available.
B. ICM plays music for callers waiting in queue if no agents are available.
C. ICM Identifies and selects an available agent and determines the label to be returned to the routing client.
D. ICM maps the Dialed Number to a call type and then maps the call type to a routing script.
E. None of the above.

Answer: C, D.

QUESTION 91
What is the sampling rate used by PCM as specified by Nyquist?

A. 800 per second
B. 1600 per second
C. 4000 per second
D. 8000 per second

Answer: D
Cisco Voice over Frame Relay, ATM & IP; McQuerry; Cisco Press p57

QUESTION 92
You are a network administrator at Certkiller . Certkiller has a router that is connected to a PBX via a 4 wire E&M circuit. All the calls to the trunk are failing. You suspect that the PBX is not receiving the incoming calls on the trunk.
To determine if this is the case, you want PBX to generate a dialtone when it receives an incoming call.
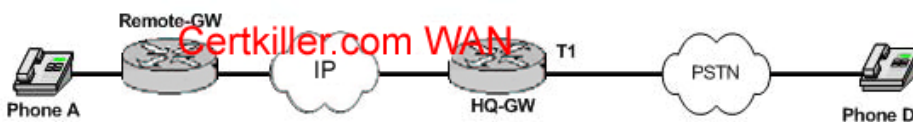Which of the following will cause the PBX to generate dialtone?

A. Short the E pin to the Tip pin.
B. Short the E pin to the ground.
C. Short the M pin to the ground.
D. Short the M pin to the Ring pin.
E. Short the Tip pin to the Ring pin.

Answer: B
Cisco Voice over Frame Relay, ATM & IP; McQuerry; Cisco Press p43

QUESTION 93
You are the network administrator at Certkiller . The Certkiller network is shown in the following exhibit:

A Certkiller user located at phone A dials 9592215. The GWs the Certkiller network are

configured as follows:

REMOTE-GW

```
voice translation-profile CERTKILLER_1
translate called 1
voice translation-rule 1
rule 1 /'\(555\)+\(.-\)//444\2/ type any national any isdn
dial-pee voice 1 voip
translation-profile outgoing CERTKILLER_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 CERTKILLER_2
translate called 1
voice translation-rule 1
rule 1 /'\(12\)+\(.+\)//911\2/type national unknown plan unknown isdn
dial-peer voice 1 pots
translation-profile outgoing CERTKILLER_2
Port 1/0:23
```

The call routing is working properly through the IP Network.
What digit string will be sent to the PSTN for termination?

A. 55514442
B. 4445952215
C. 5952215444
D. 5952215
E. 555911911444
F. 911911444555

Answer: D

QUESTION 94
Which of the following tasks can the Cisco SIP Proxy not perform?

A. Registrar Server.
B. Redirect Server.
C. Proxy Server.
D. User Agent.

Answer: D

QUESTION 95
With regard to Analog DID connections to the PSTN, which of the following statements
about are true?

A. DID trunks can only send calls from the CO.
B. DNIS information is send out-of-band.
C. DID trunks can only send calls towards the CO.
D. DNIS information is send in-band.

Answer: A, D

QUESTION 96
With regard to jitter, which of the following statements are true?

A. Jitter is the variation from the time that a packet is expected to be received and when it is actually received.
Voice devices have to compensate for jitter by setting up a playout buffer to accept voice in a smooth fashion and avoid discontinuity in the voice stream.
B. Jitter is the actual delay from the time that a packet is expected to be transmitted and when it actually is transmitted.
Voice devices have to compensate for jitter by setting up a playin buffer to play back voice in a smooth fashion and avoid discontinuity in the voice stream.
C. Jitter is the actual delay from the time that a packet is expected to be transmitted and when it actually is transmitted.
Voice devices have to compensate for jitter by setting up a playout buffer to play back voice in a smooth fashion and avoid discontinuity in the voice stream.
D. Jitter is the variation from the time that a packet is expected to be received and when it is actually received.
Voice devices have to compensate for jitter by setting up a playin buffer to accept voice in a smooth fashion and avoid discontinuity in the voice stream.

Answer: A

QUESTION 97
On which criteria does a Cisco SIP Proxy Server use to make routing decisions?

A. From: header
B. To: header
C. SDP parameters
D. User-Portion on the Request -URI

Answer: D

QUESTION 98
What is the purpose of the Erlang-C Traffic Model in an IP Contact Center deployment?

A. To provision ports on an IP-IVR interfacing with Cisco CallManager.
B. To provision agents initiating/handling the outband calls only.
C. To provision agents receiving/handling the inbound calls.

D. To provision ports on a voice gateway interfacing to the PSTN.

Answer: C
According the website http://www.erlang.com/whatis.html , the source given by Cisco as a study resource, the Erlang C is used for Call Center Agent staffing / queuing.

QUESTION 99
You are a telephony trainee at Certkiller Inc. Your instructor asks you what industrystandard protocol the CallManager uses for Integration to VoiceMail systems.
What will your reply be?

A. T1-CAS
B. H.323
C. SMDI
D. Q.931
E. H.225.

Answer: C

QUESTION 100
What is the range of UDP port numbers used in Cisco's VoIP implementation?

A. 1699 to 3210
B. 1100 to 2100
C. 1225 to 2245
D. 16384 to 32767
E. 32769 to 64535

Answer: D

QUESTION 101
Supplementary Services in ISDN for Echo. (Select two.)
A.) G.711
B.) H.323
C.) G.165
D.) G.174
E.) G.168

Answer: C, E
The echo canceller complies with ITU-T standards G.164, G.165, and G.168.

QUESTION 102
Queuing technology in Voice Configurations at the edge gateway (design guide)
Voice (RTP-Traffic), Signaling and normal data traffic.
A.) PQ, CBWFQ, FQ
B.) LLQ, CBWFQ, WFQ

C.) LLQ, CBWFQ, FQ
D.) PQ, WFQ, FQ

Answer: C

QUESTION 103
Exhibit:
phone -> gw -> fr -> atm -> gw -> phone
ATM to FR and Back over WAN for Voice-Transfer (FR <-> ATM). (Select two.)
A.) FRF.8
B.) FRF.11
C.) FRF.12
D.) FRF.15
E.) FRF.16

Answer: A, B
Two possible answers. I did [A,B]

QUESTION 104
Transfer types from AMIS to Email-server.
A.) Email-Message
B.) Email-Message and Voice-Mail-Message
C.) Voice-Mail-Message
D.) ?

Answer: C

QUESTION 105
There are 100 calls with duration of 6 minutes in busy hour time.
A.) 100 Erlang
B.) 10 Erlang
C.) 3600 CCS, Centum Call Seconds
D.) B and C

Answer: A

QUESTION 106
When the CallManager goes down, what will the PBX do?
A.) Normal telephony will work
B.) There will nothing work
C.) There are only some problems with signalling, but calls will be forwarded
D.) ?

Answer: