642-437^{Q&As}

Implementing Cisco Unified Communications Voice over IP and QoS v8.0 (CVOICE v8.0)

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QUESTION 1

To avoid unnecessary delay for high-priority traffic, on which speed link should you enable the link fragmentation and interleaving feature?

A. less than 768 kb/s

B. less than 1.544 Mb/s

C. less than 2.048 Mb/s

D. less than 512 kb/s

Correct Answer: A

QUESTION 2

Which option is used within a dial plan to define the destination that a user is allowed to call?

A. dial peers

B. calling peers

C. calling privileges

D. destination patterns

Correct Answer: C

QUESTION 3

Drag the delay type on the left and drop it on the correct description on the right.

Select and Place:

Drag the delay type on the left and drop it on the correct description on the right.

Processing Delay		Time required for sampling, encoding, packetization, and the reverse of the process.
Serialization Delay		The time it takes for a router to take the packet from an input interface, examine it, and put it into an output interface.
Dejitter Buffer		The time a packet resides in the output queue of a router.
DSP Delay		The time it takes to transmit "bits on the wire."
Queuing Delay		Buffer to compensate for variation in the arrival times of packets.
Propagation Delay		The time it takes for a packet to traverse a line from one end to the other end.

Correct Answer:

Drag the delay type on the left and drop it on the correct description on the right.

		DSP Delay
		Processing Delay
		Queuing Delay
		Serialization Delay
		Dejitter Buffer
		Propagation Delay

Explanation/Reference:

Processing Delay: Coder delay is the time taken by the digital signal processor (DSP) to compress a block of PCM samples. This is also called processing delay (?n). This delay varies with the voice coder used and processor speed.

Serialization Delay: Serialization delay (?n) is the fixed delay required to clock a voice or data frame onto the network interface. It is directly related to the clock rate on the trunk.

Dejitter Buffer: Because speech is a constant bit-rate service, the jitter from all the variable delays must be removed before the signal leaves the network. In Cisco router/gateways this is accomplished with a de-jitter (?n) buffer at the far-end

(receiving) router/gateway. The de-jitter buffer transforms the variable delay into a fixed delay. It holds the first sample received for a period of time before it plays it out. This holding period is known as the initial play out delay.

DSP Delay: The time the packet spends inside the DSP is known as DSP Delay. Sampling, Encoding, Decoding etc. takes place inside the DSP.

Queuing Delay: After the compressed voice payload is built, a header is added and the frame is queued for transmission on the network connection. Voice needs to have absolute priority in the router/gateway. Therefore, a voice frame must

only wait for either a data frame that already plays out, or for other voice frames ahead of it. Essentially the voice frame waits for the serialization delay of any preceding frames in the output queue. Queuing delay (sn) is a variable delay and is

dependent on the trunk speed and the state of the queue. There are random elements associated with the queuing delay.

Propagation Delay: Caused by the length a signal must travel via light in fiber or electrical impulse in copper-based networks

http://www.cisco.com/en/US/tech/tk652/tk698/technologies_white_paper09186a00800a8993.shtml

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QUESTION 4

When marking traffic for Expedited Forwarding, how does a device that is not capable of recognizing DSCP interpret the EF binary string 101110?

A. The device that cannot recognize DSCP will use best effort to forward the packet.

B. The device that does not recognize DSCP will use 110 as the CoS value and forward the packet with a CoS of 6.

C. The first device in the network that does not recognize DSCP will use 110 as the CoS value and will replace the DSCP value with a CoS of 6 and forward the packet.

D. The devices in the network that do not recognize DSCP will use the three high-order DSCP bits as the CoS setting, resulting in a CoS value of 5.
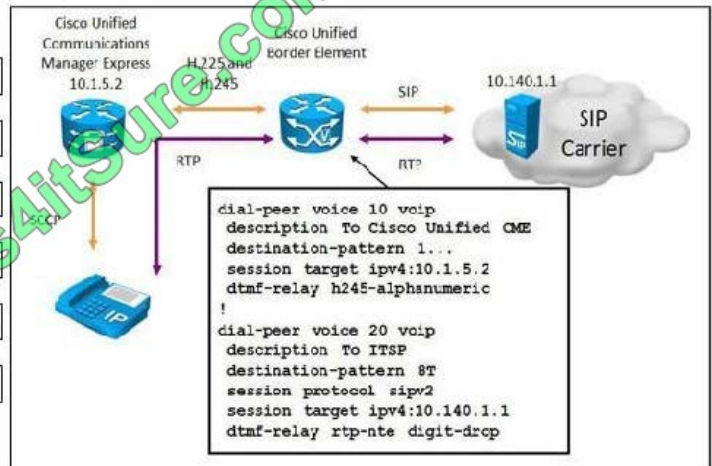
Correct Answer: D

QUESTION 5

Drag the appropriate IOS command from left and drop them in the spaces on the order to configure Cisco Unified Border Element. The ITSP does not support early offer. Not all boxes are used.
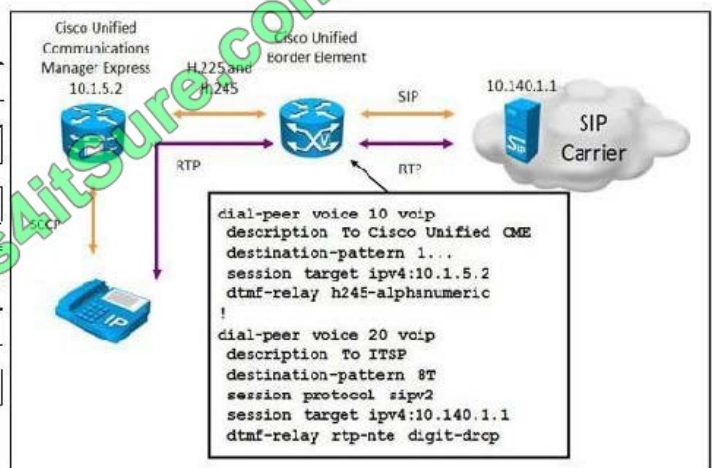
Select and Place:

Drag the appropriate IOS command from the left and crop them in the spaces on the right in order to configure Cisco Unified Border Element. The ITSP does not support early offer. Not all boxes are used.

Correct Answer:

Drag the appropriate IOS command from the left and crop them in the spaces on the right in order to configure Cisco Unified Border Element. The ITSP does not support early offer. Not all boxes are used.

Explanation/Reference:

Configuring an IP IP Gateway:

Call direction and translation section

voice service voip - Enters VoIP voice-service configuration mode

allow-connections from-type to to-type - Allows connections between specific types of endpoints in an Cisco Unified Border Element. Arguments are as follows:

•from-type - Type of connection. Valid values: h323, sip.

•to-type - Type of connection. Valid values: h323, sip.

Main protocol section

h323

call start interwork - Enables slow-start to fast-start interworking

sip

http://www.cisco.com/en/US/docs/ios/voice/cube/configuration/guide/vb-gw-config.html

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