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Vendor: Convergence Technologies Profession

Exam Code: TT0-101

Exam Name: Convergence Technologies Professional

Version: Demo

QUESTION: 1

Which of the following International Telecommunication Union (ITU) recommendations defines the standard for store-and-forward fax transmission over IP networks?

- A. T.37
- B. S.47
- C. V.235
- D. Q.931

Answer: A

QUESTION: 2

Which media protocol is commonly used for Voice over IP (VoIP) solutions?

- A. IMP
- B. RTMP
- C. MGCP
- D. ICMP

Answer: C

QUESTION: 3

Users are reporting problems with voice delays on telephone calls on the corporate Voice over IP (VoIP) network. Which of the following is a possible cause of this problem?

- A. Large data packets are causing the voice packets to exceed their delay budget.
- B. Echo cancellation has been enabled on the voice coders without configuring phase shifting.
- C. The destination number is not contained in the local dial plan, forcing the gateway to do a recursive number lookup.
- D. The voice codec is unable to properly compress the voice stream into packets because the sampling rate has been set too high.

Answer: A

QUESTION: 4

What is the function of Quality of Service (QoS) in packet-voice networks?

- A. Applies differential routing to voice packets
- B. Improves encoding performance for voice packets
- C. Reduces serialization and propagation delay to voice packets
- D. Increases the amount of available bandwidth of voice packets

Answer: A

QUESTION: 5

Using a T1 circuit to connect a North American company to its European branch, a technician may choose an E1 carrier trunk. How many total and usable data and/or voice channels can be configured?

- A. 23 channels
- B. 24 channels
- C. 30 channels
- D. 32 channels

Answer: B

QUESTION: 6

Which of the following is a common characteristic of circuit-switched networks?

- A. A call uses multiple circuits, releasing them during periods of silence for maximum efficiency.
- B. A call has exclusive use of the entire circuit for the duration of the call but is inherently expensive.
- C. A call can be completed without the need for any signaling because it uses PSTN circuits instead of TCP/IP.
- D. A call has a very robust set of Quality of Service (QoS) options that allows it to overcome congestion and latency problems.

Answer: B

QUESTION: 7

Which Quality of Service (QoS) technology is used by applications to signal QoS requirements to the network?

- A. DSCP
- B. RSVP
- C. 802.1P
- D. IP Precedence

Answer: B

QUESTION: 8

What is the function of a gatekeeper in a converged network?

- A. Provides network connectivity for legacy systems
- B. Provides admission control and address translation between endpoints
- C. Manages calls between three or more endpoints to facilitate multipoint conferencing
- D. Performs call setup and address translation between packet-switched and circuit-switched networks

Answer: B

QUESTION: 9

What is a function of a gateway in a converged network?

- A. Provides Quality of Service (QoS) to converged networks
- B. Provides admission translation and address control between IP endpoints
- C. Manages calls between three or more endpoints to facilitate multipoint conferencing
- D. Performs call setup and address translation between circuit-switched and packet-switched networks

Answer: D

QUESTION: 10

Which International Telecommunication Union (ITU) G Series standard defines PCM voice coding at 64 Kbps?

- A. G.711
- B. G.726
- C. G.728
- D. G.729

Answer: A

QUESTION: 11

Which is a variable delay component in packet-voice networks?

- A. Routing-queuing delay
- B. Bit-serialization delay
- C. End-point processing delay
- D. Encoding and compression delay

Answer: A

QUESTION: 12

When a technician connects a North American T1 trunk to a European E1 trunk using a conversion device, which of the following will result?

- A. No connection can be made between E1 and T1.
- B. No more than 80 percent of the E1 trunk can be used.
- C. The connection will be transparent to the technician.
- D. No less than 80 percent of the T1 can be used or the connection will fail.

Answer: B

QUESTION: 13

A company has complained that its voice quality is poor and would like to switch the codec used by its on-premise Voice over IP (VoIP) gateway from G.723.1 to G.711. How will changing the customer's gateway to G.711 impact the overall bandwidth consumption?

- A. Has no effect on bandwidth consumption, but will increase latency
- B. Has no effect on bandwidth consumption, but will reduce jitter
- C. Decreases the bandwidth consumption of each call to 8 Kbps (plus any overhead)
- D. Increases the bandwidth consumption of each call to 64 Kbps (plus any overhead)

Answer: D

QUESTION: 14

Which standards body is responsible for publishing the Requests For Comments (RFCs) that establish TCP/IP specifications?

- A. Internet Engineering Task Force (IETF)
- B. International Telecommunication Union (ITU)
- C. Institute of Electrical and Electronics Engineers (IEEE)
- D. Internet Corporation for Assigned Names and Numbers (ICANN)

Answer: A

QUESTION: 15

Through troubleshooting, a technician determines that there is a degraded clocking source on a customer's wide area network (WAN). Which term would that troubleshooter use to describe this situation?

- A. Wander
- B. Jitter
- C. Latency
- D. Attenuation

Answer: A

QUESTION: 16

Which of the following Quality of Service (QoS) techniques uses the precedence bits in the IP header?

- A. RSVP
- B. 802.1p
- C. IntServ
- D. DiffServ

Answer: D

QUESTION: 17

During the call setup phase, call setup information is transmitted as non ASCII-based digital information to a gatekeeper, while the media stream is transmitted directly from endpoint to endpoint. Which of the following protocols does this describe?

- A. SIP
- B. Q.931
- C. H.323
- D. H.320

Answer: C

QUESTION: 18

Which result will occur if the Adaptive Differential Pulse Code Modulation (ADPCM) is reduced from 32 Kbps to 16 Kbps?

- A. Voice quality degrades as compression increases
- B. Voice quality improves as compression increases.
- C. Voice quality degrades as compression decreases.
- D. Voice quality is unaffected by compression rates.

Answer: A

QUESTION: 19

A customer is experiencing sporadic problems with clicking during conversations, poor quality on fax transmissions, and modems failing to connect. Which of the following is the most likely cause?

- A. The T1 clock reference is incorrect.

- B. The frame relay network is congested.
- C. The channels have been provisioned incorrectly.
- D. The D channel signaling information is incorrect.

Answer: A

QUESTION: 20

Which of the following is an international standard for the electrical interface between Data Terminal Equipment (DTE) and Data Communications Equipment (DCE)?

- A. V.24
- B. DB25
- C. RJ-11
- D. 802.11b

Answer: A

QUESTION: 21

A customer has two T3 lines and wants to provide for additional bandwidth. What is the minimum Optical Carrier level that should be selected to replace them with a single circuit?

- A. OC1
- B. OC3
- C. OC12
- D. OC48

Answer: B

QUESTION: 22

What is the result of attenuation?

- A. Echo
- B. Jitter
- C. Signal strength increases
- D. Signal strength decreases

Answer: D

QUESTION: 23

Teflon-coated (plenum) cable is required or recommended in which of the following circumstances?

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