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Exam : **TT0-101**

Title : Convergence Technologies Professional

Version : Demo

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

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

A. IMP

B. RTMP

C. MGCP

D. ICMP
Answer: C

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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