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Certified Technology Specialist - Design (CTS-D)

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Question: 1

Which of the following are features of an audio signal generator?
(Select all that apply.)

Response:

- A. Generates sine wave and other signals used for setting system levels
- B. Usually has both 1 kHz and 400 Hz signal outputs
- C. With a properly calibrated signal can determine signal bit rate
- D. Can be helpful in measuring distortion

Answer: A,B,D

Question: 2

Under what circumstance would a designer need to generate a Request for Information (RFI) form on a project?

Response:

- A. The general contractor has changed the project schedule and timeline
- B. The owner has approved a change in types of flat panel displays
- C. There is a mis-match between a diagram and a description on the project
- D. There is a site issue having to do with the concrete footers

Answer: C

Question: 3

Which of the following is a mitigation strategy for addressing security risks introduced by AV systems?
Response:

- A. Putting AV systems on a VLAN
- B. Hiring a security expert
- C. Building a firewall
- D. Setting all passwords to "password"

Answer: A

Question: 4

How do you confirm the AV System has been built and delivered as per the client's scope?

Response:

- A. Training has been completed with end users along with turnover of O&M Manuals.
- B. Compare the As-Built drawings and commissioning report to the performance specifications.
- C. Confirm with the client or owner that warranty documentation has been received.
- D. Generate an RFI to the architect or general contractor.

Answer: B

Question: 5

PAG and NAG are important calculations for ensuring an audio system is:

Response:

- A. Stable
- B. All of the above
- C. Loud enough
- D. Intelligible

Answer: A

Question: 6

You need to stream 10 channels of 96 kHz audio. You have 25 Mbps of bandwidth available. What is the highest bit depth you can use?

Response:

- A. 26 bit
- B. 48 bit
- C. 24 bit
- D. 32 bit

Answer: A

Question: 7

How does one define project responsibilities and identify AV technology requirements?

Response:

- A. Follow guidelines determined by state and local building codes
- B. Follow the project directory & program report
- C. The project manager will outline the responsibilities in the RFP
- D. Consult with the owner as the project progresses

Answer: B

Question: 8

What is the recommended (highest) ambient lighting level illuminating a front projections screen within a video conferencing space?

Response:

- A. 45 footcandles (161 lux)
- B. 25 footcandles (215 lux)
- C. 30 footcandles (108 lux)
- D. 5 footcandles (50 lux)

Answer: D

Question: 9

What formula is used to predict the transmission loss of single-layer, impermeable materials?

Response:

- A. Mass law
- B. Ohm's law
- C. Frequency coefficient
- D. Inverse square law

Answer: A

Question: 10

When is the commissioning phase of the project?

Response:

- A. When the AV system conceptual design is created
- B. While preparing the schematic design
- C. When the construction work is at or near completion

D. While determining the project goals and needs

Answer: C

Question: 11

How do you determine the client's long-term plans and needs in terms of equipment and support maintenance?

Response:

- A. Consult other AV industry experts and vendors
- B. Consult the owner and the program report
- C. Design a system that fits any organization of that size
- D. Contract with a consulting company to determine client needs

Answer: B

Question: 12

A client's security objectives can often be described with respect to the CIA triad. CIA stands for:
Response:

- A. Confidentiality, integrity, availability
- B. Central Intelligence Agency
- C. Communication, infrastructure, authorization
- D. Confidentiality, information, access

Answer: A

Question: 13

According to the ANSI/INFOCOMM 3M-2011 standard, Projected Image System Contrast Ratio, what is the minimum contrast ratio of basic decision-making tasks?

Response:

- A. 15:1
- B. 80:1
- C. 7:1
- D. 50:1

Answer: A

Question: 14

Which of the following statements apply to unicast streaming?

Response:

- A. It requires special routers called rendezvous points.
- B. It consumes more bandwidth the more people who need to view the stream.
- C. It uses special IP addresses assigned by the Internet Assigned Numbers Authority.
- D. It uses group-management protocols to control streaming channels.

Answer: B

Question: 15

A video system design to transmit 4K at 60 fps, with 4:4:4 chroma sampling and 10 bits per color, requires about _____ of throughput.

Response:

- A. 22 Gbps
- B. 32 Gbps
- C. 10 Gbps
- D. 16 Gbps

Answer: A



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