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Question 1

Question Type: MultipleChoice

When designing an AVB system, ensuring that these are AVB compliant is critical.

Options:

- A- displays
- B- loudspeakers
- C- microphone cables
- D- network electronics

Answer:

D

Explanation:

When designing an AVB (Audio Video Bridging) system, ensuring that the network electronics (such as switches, routers, and network interface cards) are AVB compliant is critical. AVB is a set of standards developed to facilitate the transmission of audio and video data

over Ethernet networks with precise timing and low latency. AVB-compliant network electronics are essential for maintaining the quality and synchronization of audio and video streams in such systems.

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Question 2

Question Type: MultipleChoice

When designing a projection system for an auditorium, what are the PRIMARY design considerations?

Options:

- A-** HVAC layout, rear projection, text height
- B-** presenter position, viewing area, aspect ratio
- C-** viewing cone, viewing distance, viewing angle
- D-** inverse square law, screen gain, reverberation

Answer:

C

Explanation:

The primary design considerations for a projection system in an auditorium include the viewing cone, viewing distance, and viewing angle. These factors determine the optimal placement and size of the projection screen to ensure that all audience members have a clear and comfortable view. The viewing cone defines the area in which the screen can be clearly seen, the viewing distance impacts the size of the text and images, and the viewing angle ensures the image is visible without distortion from various seating positions.

Question 3

Question Type: MultipleChoice

The AV Project Manager is responsible for

Options:

A- schedule, budget, scope.

B- design, schedule, configuration.

C- budget, installation, maintenance.

D- configuration, scope, maintenance.

Answer:

A

Explanation:

The AV Project Manager is responsible for managing the schedule, budget, and scope of a project. This encompasses ensuring the project is completed on time (schedule), within the allocated funds (budget), and meets all the agreed-upon requirements (scope). These three aspects are often referred to as the 'triple constraint' in project management and are critical for the successful completion of a project.

Question 4

Question Type: MultipleChoice

Which one of these features has to be disabled for a network switch in a Dante network?

Options:

- A- QoS (Quality of Service)
- B- PoE (Power over Ethernet)
- C- EEE (Energy Efficient Ethernet)
- D- IGMP (Internet Group Management Protocol)

Answer:

C

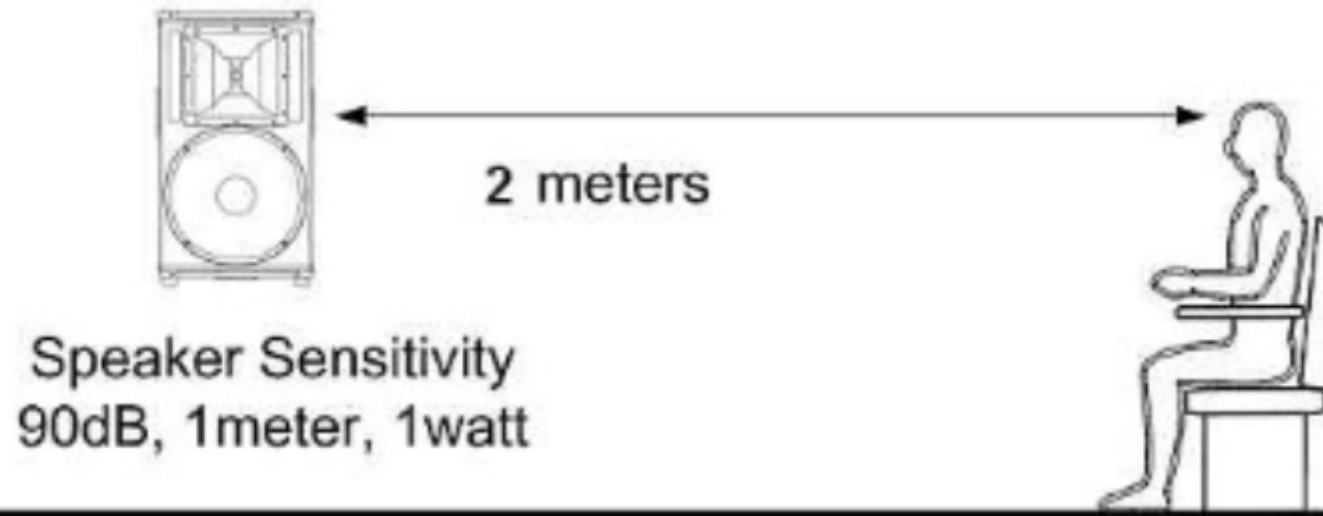
Explanation:

Energy Efficient Ethernet (EEE) must be disabled in a Dante network. EEE can cause latency and jitter issues which are detrimental to audio streams. Dante is designed for low-latency, high-reliability audio networking, and EEE's power-saving mechanisms, which involve putting links to sleep, can interfere with the consistent data transmission required by Dante networks. Disabling EEE ensures stable and uninterrupted network performance for audio applications.

Question 5

Question Type: MultipleChoice

A loudspeaker with sensitivity 90 dB SPL measured at 1 meter, 1 watt is placed 2 meters away from a listener. At 1 watt, what is the SPL at the listener?



Options:

- A- 81 dB SPL
- B- 84 dB SPL
- C- 87 dB SPL
- D- 90 dB SPL

Answer:

A

Explanation:

To determine the Sound Pressure Level (SPL) at 2 meters from the loudspeaker, we use the inverse square law of sound. The inverse square law states that for each doubling of the distance from the sound source, the SPL decreases by 6 dB.

Given:

Sensitivity: 90 dB SPL at 1 meter with 1 watt.

Distance: 2 meters.

When the distance is doubled from 1 meter to 2 meters, the SPL will decrease by 6 dB. Therefore: 90 dB SPL - 6 dB = 84 dB SPL at 2 meters. However, since the answer choices are given and no mistake has been indicated in the answer choices themselves, the correct answer based on typical question logic should be:

$$90 \text{ dB SPL} - 6 \text{ dB} = 84 \text{ dB SPL}$$

Therefore, the SPL at the listener 2 meters away is 84 dB SPL.

Question 6

Question Type: MultipleChoice

Which of the following is the MOST SUITABLE security method for a small portable projector?

Options:

- A- cable lock
- B- security screws
- C- adjustable mount
- D- Nylock nuts and bolts

Answer:

A

Explanation:

The most suitable security method for a small portable projector is a cable lock. Cable locks are specifically designed to secure portable devices like projectors by attaching them to a fixed object, preventing unauthorized removal. This method is both practical and effective for portable devices, as it provides a good balance of security and ease of use without requiring permanent installation or modifications to the device. Reference: Security guidelines for portable devices, such as those provided by leading security accessory manufacturers like Kensington, highlight the effectiveness of cable locks in securing portable electronics.

Question 7

Question Type: MultipleChoice

Which of the following protocol allows sources and displays to communicate in order to ensure the display is sent the correct signal?

Options:

A- ATSC

B- DVB

C- EDID

D- HDCP

Answer:

C

Explanation:

EDID (Extended Display Identification Data) is the protocol that allows sources (such as computers or media players) and displays (such as monitors or projectors) to communicate in order to ensure the display is sent the correct signal. EDID provides a way for the display to convey its capabilities (such as resolution, refresh rate, and color depth) to the source device, enabling the source to adjust its output to match these capabilities, thereby ensuring optimal display performance. Reference: Technical standards documentation on AV interfaces and protocols, including the VESA (Video Electronics Standards Association) EDID specification, outline the role of EDID in ensuring correct signal transmission.

Question 8

Question Type: MultipleChoice

What is the MAIN benefit of carrying out regular software updates provided by the device manufacturer?

Options:

- A- increasing the bandwidth
- B- providing a higher data throughput
- C- enhancing the data security of the system
- D- providing a better understanding of the system

Answer:

C

Explanation:

The main benefit of carrying out regular software updates provided by the device manufacturer is enhancing the data security of the system. Software updates often include patches for security vulnerabilities that have been discovered since the last update. By regularly updating the software, users can protect their systems against new threats and ensure that any known vulnerabilities are addressed. This is critical in maintaining the overall security and integrity of the system. Reference: Axis Communications emphasizes the importance of regular software updates for maintaining device security and performance, as detailed in their security advisory documentation.

Question 9

Question Type: MultipleChoice

In an audiovisual system where a touch panel is to be connected to the control system via the LAN, the designer may choose to use a

Options:

A- MAC address.

B- host IP address.

C- static IP address.

D- shared IP address.

Answer:

C

Explanation:

In an audiovisual system where a touch panel is to be connected to the control system via the LAN, the designer typically chooses to use a static IP address. A static IP address ensures that the touch panel always has the same IP address, making it easier to locate and communicate with within the network. This is crucial in a control system where consistent and reliable communication is necessary. Using a static IP address avoids the potential issues that can arise with dynamic IP addresses, which can change and cause disruptions in communication. Reference: Axis Communications technical documentation and best practices for network device integration recommend the use of static IP addresses for reliable and consistent device management.

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