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Question: 103

Which of the following characteristics of a video image does scaling set?

A. Bandwidth
B. Resolution
C. Color
D. Speed

Answer: B

Scaling sets the resolution of a video image.

Key Takeaway: Video scaling is a technique used to convert video signals from one size or resolution to another. It is usually used to upscale a video signal from a low to a higher resolution. Video scaler is primarily a digital device. However, they can be combined with an ADC, or digitizer, and a DAC to support analog inputs and outputs.

Question: 104

Which of the following refers to the term that defines the area in a house where everyone receives the same video signal?

A. Sector
B. Video area
C. Theater area
D. Zone

Answer: D

Zone defines the area in a house where everyone receives the same video signal.

Key Takeaway: A general practice used for a video source is to divide the room into conceptual equal-sized zones. All points in the zone will receive the same amount of video signal. The location where the equipment is placed should meet the design, accessibility, and usage needs.

Question: 105

You are troubleshooting an issue where a customer complains that he views rolling lines or patterns on many television channels. Which of the following could most likely be the issue?

A. DC power in the cable.
B. Inadequate shielding on coaxial cable.
C. AC power interference.
D. Insufficient cable bandwidth.

Answer: A

The most likely issue is that there is DC power in the cable.

Key Takeaway: Horizontal rolling bars are caused by DC power getting into the cable system. To fix this issue, you should disconnect the TV from all other components in the system. If the bars disappear, add the other components back in until the bars return. When you find the faulty component, use a DC blocker to eliminate the DC power path to the system.

Question: 106
Which of the following types of coaxial cable shielding is used to resist Radio Frequency Interference?

A. Dielectric
B. Foil
C. Wire mesh
D. Wire braid

Answer: B

The coaxial cable shielding that is used to resist Radio Frequency Interference is called a Foil.

Key Takeaway: A foil shield is primarily used to deflect RFI from the cable. Foil shields have a thin drain wire that allows the foil to be connected to the outer channel of an F-type or BNC connector.

Question: 107

Which of the following is the QoS Priority for streaming multimedia transmissions?

A. 5
B. 3
C. 2
D. 4

Answer: D

QoS Priority for streaming multimedia transmissions is 4.

Key Takeaway: Best effort transmissions have a QoS priority of 0. Background transmissions have a QoS priority of 1. Standard transmissions have a QoS priority of 2. Business critical transmissions have a QoS priority of 3. Streaming multimedia transmissions have a QoS priority of 4. Voice and video transmissions have a QoS priority of 5. Layer 3 network control transmissions have a QoS priority of 6. Layer 2 network control transmissions have a QoS priority of 7.

Question: 108

Which of the following does the SIP protocol do when one VoIP caller places a call to another VoIP user?

A. Converts the telephone number into the MAC address of the destination phone.
B. Converts the telephone number into the IP address of the destination phone.
C. Converts the telephone number into the IP address of the source phone.
D. Converts the telephone number into the MAC address of the destination phone.

Answer: B

SIP converts the telephone number into the IP address of the destination phone.

Key Takeaway: SIP allows one VoIP caller to place a call to another VoIP user. When a caller dials the phone number of a VoIP-based user, SIP converts the telephone number into the IP address of the destination phone. It then sends an invitation to the destination address. This causes the phone to ring.

Question: 109

You have connected the conductors of a wire pair to different pins of a terminator at each end of a cable. Which of the following refers to this condition?

A. Reversed pair
B. Crossed pair
C. Open circuit
D. Short circuit

Answer: A

When you connect the conductors of a wire pair to different pins of a terminator at each end of a cable, it is known as a reversed pair.

Key Takeaway: Reversed pair is a condition where two lines in a pair are connected to opposite pins at each end of the cable. It is called a polarity reversal, or tip-and-ring reversal. If there is a reversed pair condition, the signals on the telephone line would not be properly received or transmitted.

Question: 110

Which of the following is a commonly used compression technique in analog cameras?

A. MPEG
B. ACC
C. JPEG
D. CIF

Answer: D

CIF is a commonly used compression technique in analog cameras.

Key Takeaway: CIF, or Common Intermediate Format, is a format used to standardize the horizontal and vertical resolutions in pixels of YCbCr sequences in video signals. It was first proposed in the H.261 standard. It defines a video sequence with a resolution of 352×288 like PAL, a frame-rate of roughly 29.97 frames like NTSC, with color encoding using YCbCr at 4:2:0.

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