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AVIXA Audiovisual Network Professional

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Question: 1

Which are the three video properties that are dependent on each other?

- A. Fps, color palette, HDMI
- B. HDR, HDCP, bandwidth
- C. Resolution, latency, bandwidth
- D. Bit depth, bandwidth, latency
- E. Bandwidth, latency, image quality

Answer: E

Question: 2

Reorder the codecs in terms of achievable bandwidth from highest to lowest.

- A. Blue River
- B. VC2
- C. JPEG2000
- D. H.264
- E. H.265

Answer: A,B,C,D,E

Explanation:

- 1) Blue River (9 Gbps)
- 2) VC2 (900 Mbps)
- 3) JPEG2000 (200 - 900 Mbps)
- 4) H.264 (300:1 Compression Ratio)
- 5) H.265 (15 - 50 Mbps)

Question: 3

DHCP with reservations requires _____.

- A. a Layer 2 switch
- B. a DNS server
- C. devices that support DHCP
- D. zero touch provisioning

Answer: C

Question: 4

Hostnames for the internal corporate network can be associated to IP addresses with a _____.

- A. DHCP with reservations system
- B. client static address
- C. DNS server
- D. firewall

Answer: C

Question: 5

An "IP address conflict" occurs when ____.

- A. DHCP and DHCP with reservations are used on the same subnet
- B. two devices are assigned the same IP address
- C. DHCP and static IP addresses used are on the same subnet
- D. devices lose their DHCP lease and get a new IP address

Answer: B

Question: 6

"Zero touch provisioning" refers to ____.

- A. Installing equipment without an IP address
- B. Installing network equipment without sending a technician
- C. Submitting a work order for DHCP with reservation assignment
- D. Getting a device's MAC address without opening the box

Answer: B

Question: 7

To implement DHCP with reservations, IT needs ____.

- A. IP address

- B. MAC Address
- C. equipment manufacturer and IP address
- D. device name and MAC address

Answer: C

Question: 8

DHCP Addresses always change ____.

- A. at the end of every week
- B. when the lease expires
- C. when hardware is rebooted
- D. none of the above

Answer: D

Question: 9

Static IP addresses are preferred by ____.

- A. IT networking teams
- B. Integrators
- C. Project sponsors
- D. End users

Answer: B

Question: 10

Enterprise IT teams will provide ____.

- A. Login access to routers for you to setup IP addresses
- B. IP address configuration information for your devices
- C. Static MAC addresses
- D. MAC addresses of your AV equipment

Answer: B

Question: 11

A sender using IntServ QoS, requests all the necessary resources at once for all flows.

- A. False
- B. True

Answer: B

Question: 21

H264/H265 produce a signal with

- A. Low bandwidth, low latency
- B. High bandwidth, high latency
- C. Low bandwidth, high latency
- D. High bandwidth, low latency

Answer: A

Explanation:

Both H.264 and H.265 (HEVC) are designed to provide high-quality video compression, which reduces the bandwidth required for streaming or transmission while maintaining good video quality. While H.265 typically offers better compression efficiency than H.264, both formats are aimed at minimizing bandwidth usage. Latency can vary based on implementation and settings, but generally, they are optimized for lower latency in real-time applications.

Question: 13

A higher bandwidth compressed signal has:

- A. Low latency, low image quality
- B. Low latency, high image quality
- C. High latency, high image quality
- D. High latency, low image quality

Answer: A

Explanation:

Higher bandwidth typically allows for more data to be transmitted, which can support higher image quality and lower latency, making it ideal for applications such as real-time video streaming and gaming.

Question: 14

The human eye is more sensitive to:

- A. Variations in brightness (Luma)
- B. Variations in color (chroma)
- C. Level of blacks
- D. Dynamic range

Answer: A

Question: 15

How many pixels does a 4K(UHD) signal have?

- A. Almost 8.3 million
- B. Over 33 million
- C. Less than 1 million
- D. Over 2 million

Answer: A

A 4K (UHD) signal has almost 8.3 million pixels. Specifically, the resolution for 4K UHD is typically 3840 x 2160 pixels, which results in approximately 8,294,400 pixels.

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