**Vendor:** CWNP

**Exam Code:** CWDP-305

**Exam Name:** Certified Wireless Design Professional (CWDP)

**Version:** DEMO

**QUESTION 1**
A museum requires its wireless access points to be discreetly integrated into the environment without sacrificing performance.
Which design choice best meets this requirement while maintaining optimal functionality?

A. Lock the AP inside of a metal box
B. Place the APs in between walls and I-beams
C. Use an 802.11b AP, so it looks old enough to be in a museum
D. Use a plastic cover that could blend in with the environment

**Answer:** D

**QUESTION 2**
An engineering firm upgraded from nine 802.11n APs to nine 802.11ac APs, retaining the same channel and power configuration. Despite this, throughput remains unchanged. What is the most likely reason for the lack of improvement?

A. APs are transmitting at a low transmit power
B. The clients were not upgraded
C. APs are mounted on the wall
D. The APs are still using the 5 GHz lower band

**Answer:** B

**QUESTION 3**
During a public Wi-Fi session with 10 other users, you run a ping sweep but cannot detect any devices on your subnet.
What feature is likely enabled on the WLAN infrastructure to prevent local communication between clients?

A. Peer-to-peer blocking
B. OSPF external routes
C. Band steering
D. Load balancing

**Answer:** A

**QUESTION 4**
While implementing 802.11ax APs in the 6 GHz band, a consultant recommends using WPA2-Personal for VoIP support.
Why is this approach technically inappropriate?

A. Because WPA2-Personal causes slower roams than WPA2-Enterprise
B. Because 802.11ax does not support WPA2-Personal in any band
C. Because 6 GHz WLANs cannot use WPA2-Personal
D. Because VoIP requires Opportunistic Wireless Encryption (OWE)

**Answer:** C

**QUESTION 5**
While planning for a VoWLAN deployment requiring 25 dB SNR, you measure the noise floor at -88 dBm.
What is the minimum RSSI needed to meet the system's performance requirements?

A. -70 dBm
B. -67 dBm
C. -65 dBm
D. -63 dBm

**Answer:** D

**QUESTION 6**
When deploying an Enterprise-class VoWLAN infrastructure, which Access Category (AC) must be used to prioritize voice packets and ensure optimal performance?

A. AC_VI
B. AC_VO
C. AC_BE
D. AC_BK

**Answer:** B

**QUESTION 7**
When using a WLAN design tool with propagation modeling capabilities, what critical step must be performed before adding APs, antennas, and attenuation factors like walls?

A. Set the transmit power for all APs
B. Add pictures of the environment
C. Nothing; just begin by adding APs, antenna and attenuators
D. Calibrate the floor plan to increase accuracy

**Answer:** D

**QUESTION 8**
Your customer's 802.11n laptops cannot detect the SSID in the 5 GHz band in a conference room, but your 802.11ac laptop connects without issue.
What is the most likely explanation for this discrepancy?

A. The AP is configured to use channel 36
B. The customer laptop does not support OFDM
C. The AP is on channel 144
D. Their laptops are SISO clients

**Answer:** C

**QUESTION 9**
When designing a static channel plan for an office using voice devices near an airport, which range of channels may be avoided to avoid channel switching when implemented in this

environment?

A. 36-40
B. 44-48
C. 116-124
D. 1-11

**Answer:** C

**QUESTION 10**
Which vertically polarized antenna is best suited for a WLAN infrastructure with access points mounted on a ceiling over 6 meters high, where all client stations operate from the floor level?

A. Patch
B. Dish
C. Grid
D. Low-gain dipole

**Answer:** D

**QUESTION 11**
When using a predictive design tool, you have selected access points (APs) with an antenna gain of 3 dBi and set the transmit power to 25 mW.
What is the EIRP (Effective Isotropic Radiated Power) of the APs in this design?

A. 11 dBm
B. 6.25 mW
C. 125 mW
D. 17 dBm

**Answer:** D

**QUESTION 12**
Your customer has selected switches that support 802.3bz MultiGig interfaces and 4x4:4 802.11ac Wave 2 APs with dual-5GHz capabilities. The APs have one MultiGig interface, and some cable runs will exceed 180.5 feet (55 meters).
To support MultiGig speeds, which is the best cabling option?

A. Cat-5
B. Cat-6
C. Cat-5e
D. Cat-6a

**Answer:** C

**QUESTION 13**
When conducting a site survey for a possible WLAN redesign, you use two Wi-Fi USB adapters for RSSI data collection and two USB spectrum analysis adapters for RF spectrum data. Since your laptop lacks enough USB ports, you connect them via a 4-port powered USB 3.0 hub. What

issue could the use of USB 3.0 cause that might impact your site survey?

A. It does not give you enough bandwidth to collect data coming from all of the adapters
B. No USB 3.0 hub provides enough power for all the adapters
C. It generates noise in the 2.4 GHz band, giving you a false perception of the noise floor
D. It generates noise in the 5 GHz band, giving you a false perception of the noise floor

**Answer:** C

**QUESTION 14**
What is the most cost-effective way to accurately measure the height of a ceiling when the use of a ladder is not permitted?

A. Estimate the height based on known object sizes
B. Gather measurements from other objects and do the math
C. Rent a lift-cart to lift you up to the ceiling
D. Use a laser measure to measure the distance from the floor to the ceiling

**Answer:** D

**QUESTION 15**
You conducted a site survey using two USB Wi-Fi adapters with a special driver designed for the site survey software. After deployment, the client devices show lower RSSI values compared to the results from your survey.
What is the most likely reason for this discrepancy?

A. USB Wi-Fi adapters designed for site surveys may have better sensitivity than regular Wi-Fi cards installed in client devices
B. The transmit power on the APs is higher than needed
C. Regular Wi-Fi cards installed in client devices do not support the same protocols as survey adapters
D. All USB Wi-Fi adapters have a greater sensitivity than internal Wi-Fi adapters

**Answer:** D

**QUESTION 16**
When performing an active site survey in an existing WLAN infrastructure, in addition to gathering throughput data, what other important function are you typically testing simultaneously?

A. Application filtering
B. Internet bandwidth
C. Roaming
D. ACL configuration

**Answer:** C

**QUESTION 17**
Why should band steering algorithms allow stations to connect to the 2.4 GHz band after ignoring a certain number of Probe Requests?

A. Because the FCC requires it
B. Because some clients are persistent clients that will not move to the 5 GHz band
C. Because the 802.11 standard requires it
D. Because the AP will experience a buffer overflow if they do not eventually respond with a Probe Response

**Answer:** B

**QUESTION 18**
After designing a WLAN infrastructure using predictive design software, what is the best way to validate the predictive design in the physical space before deployment, assuming time and budget allow for it?

A. Deploy all of the APs as they're shown in the predictive design and perform an active site survey
B. Deploy all of the APs as they're shown in the predictive design and perform a passive site survey
C. Use a client device positioned where the APs will be installed and measure the signal from the client device
D. Perform an AP-on-a-Stick survey using AP locations based upon the predictive design to confirm each AP's placement

**Answer:** D

**QUESTION 19**
Your customer requires a security solution where client credentials are used, not a Protected Access Credential (PAC), and the authentication server must have a certificate with optional client certificate use. Which EAP (Extensible Authentication Protocol) method is the best fit for these requirements?

A. EAP-FAST
B. EAP-TTLS
C. EAP-TLS
D. LEAP

**Answer:** B

**QUESTION 20**
Your customer requires fast and secure roaming.
Which two types of roaming are specified in 802.11 Fast Transition (FT) that will help meet this goal?

A. Over-the-Air and Over-the-DS
B. Over-the-Air and Over-the-Wire
C. FT and OKC
D. FT and TKIP

**Answer:** A

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