



CWNA-106 Q&As

Certified Wireless Network Administrator





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Vendor: CWNP

Exam Code: CWNA-106

Exam Name: Certified Wireless Network Administrator

Q&As: Demo

QUESTION 1

What word describes the bending of an RF signal as it passes through a medium of a varying density from that of free space?

- A. Diffraction
- B. Reflection
- C. Refraction
- D. Diffusion
- E. Scattering

Correct Answer: C

QUESTION 2

What can cause an excessively high VSWR (Voltage Standing Wave Ratio) in a WLAN RF transmission line?

- A. An impedance mismatch in the RF cables and connectors
- B. Reflected direct current (DC) voltage on the main RF signal line
- C. Attenuation of the RF signal as it travels along the main signal path
- D. Crosstalk (inductance) between adjacent RF conductors

Correct Answer: A

QUESTION 3

What factors influence the distance that an RF signal can be effectively received? (Choose 3)

- A. Transmitting station's power source
- B. Receiving station's radio sensitivity
- C. Free Space Path Loss
- D. MAC layer encryption
- E. Transmitting station's output power
- F. Temperature in the Fresnel zone

Correct Answer: BCE

QUESTION 4

As an RF wave propagates through space, the wave front experiences natural expansion that reduces its signal strength in an area.

What term describes the rate at which this expansion happens?

- A. MU-MIMO
- B. Inverse square law
- C. Path spread phenomenon
- D. Fresnel zone thinning
- E. Ohm's law

Correct Answer: B

QUESTION 5

Return Loss is the decrease of forward energy in a system when some of the power is being reflected back toward the transmitter.

What will cause high return loss in an RF transmission system, including the radio, cables, connectors and antenna?

- A. A Voltage Standing Wave Ratio (VSWR) of 1:1
- B. An impedance mismatch between components in the RF system
- C. Cross-polarization of the RF signal as it passes through the RF system
- D. The use of cables longer than one meter in the RF system
- E. High output power at the transmitter and use of a low-gain antenna

Correct Answer: B

QUESTION 6

What factors are taken into account when calculating the Link Budget of a point-to-point outdoor WLAN bridge link?

- A. Operating frequency
- B. Transmit antenna gain
- C. Transmit power
- D. Antenna height

Correct Answer: ABC

QUESTION 7

A WLAN transmitter that emits a 200 mW signal is connected to a cable with 3 dB loss. If the cable is connected to an antenna with 10 dBi gain, what is the EIRP at the antenna element?

- A. 10 dBm
- B. 13 dBm
- C. 20 dBm
- D. 26 dBm
- E. 30 dBm

Correct Answer: E

QUESTION 8

In a long-distance RF link, what statement about Fade Margin is true?

- A. Fade Margin is an additional pad of signal strength designed into the RF system to compensate for unpredictable signal fading.
- B. The Fade Margin of a long-distance radio link should be equivalent to the receiver's antenna gain.
- C. A Fade Margin is unnecessary on a long-distance RF link if more than 80% of the first Fresnel zone is clear of obstructions.
- D. The Fade Margin is a measurement of signal loss through free space, and is a function of frequency and distance.

Correct Answer: A

QUESTION 9

Which unit of measurement is an absolute unit that is used to quantify power levels on a linear scale?

- A. dBm
- B. W
- C. dB
- D. mW
- E. VSWR

Correct Answer: A

QUESTION 10

An 802.11 WLAN transmitter that emits a 50 mW signal is connected to a cable with 3 dB of loss. The

cable is connected to an antenna with 16 dBi of gain.

What is the EIRP power output?

- A. 10 mW
- B. 25 mW
- C. 50 mW
- D. 250 mW
- E. 1000 mW

Correct Answer: E

QUESTION 11

What is always required to establish a high quality 2.4 GHz RF link at a distance of 3 miles (5 kilometers)?

- A. Minimum output power level of 2 W
- B. Accurate Earth Bulge calculations
- C. Grid antennas at each endpoint
- D. A minimum antenna gain of 11 dBi at both endpoints
- E. A Fresnel Zone that is at least 60% clear of obstructions

Correct Answer: E

QUESTION 12

What phrase defines Equivalent Isotropically Radiated Power (EIRP)?

- A. The power output from the radio into the RF cable
- B. The power output from the radio after cable losses
- C. The highest RF signal strength that is transmitted from a given antenna
- D. Reflected power due to an impedance mismatch in the signal path
- E. Power supplied from the transmission line to the antenna input

Correct Answer: C

QUESTION 13

What term describes the effect of increasing the intensity of an RF wave with an antenna by focusing the energy in a specific direction?

- A. Distributed Radiation
- B. Active Amplification
- C. Beam Compression
- D. Passive Gain
- E. RF Flooding

Correct Answer: D

QUESTION 14

Which antenna types are commonly used by indoor Wi-Fi devices in a MIMO diversity implementation? (Choose 2)

- A. Dipole
- B. Patch
- C. Dish
- D. Grid
- E. Sector

Correct Answer: AB

QUESTION 15

What phrase correctly completes the following sentence?

When using WMM Power Save operation, a wireless client device _____.

- A. Alternates between awake and dozing, depending on its need to transmit and receive information
 - B. Enters a low-power radio state until it receives a WMM PS-Poll frame from the AP
 - C. Experiences higher throughput and lower latency than when operating in Active mode
 - D. Powers down a subset of MIMO radio chains and transmits information at a slower data rate
 - E. Buffers frames destined to the low-power AP until the AP wakes its radio and begins beaconing again
- Correct Answer: A

Correct Answer:

QUESTION 16

Users and Network support personnel at a mid-sized equipment manufacturer have been discussing the potential uses and benefits of implementing an indoor WLAN. The network administrator and network manager have requested a meeting of senior management personnel to discuss a WLAN implementation before performing a site survey or taking any implementation steps. The first topic of discussion in the meeting is the corporate policy concerning implementation and use of WLAN technology.

What specific topics are appropriate in this policy meeting? (Choose 2)

- A. Use of the latest 802.11ac equipment
- B. Business justification
- C. User productivity impact
- D. Antenna types
- E. Defining RF channels for use

Correct Answer: BC

QUESTION 17

The network administrator at XYZ Company recently attended a training class on wireless security and realized that he should update the corporate security policy to address WLAN technology. The network administrator is listing the items that should be addressed in the security policy update, and has asked for your input.

What WLAN topics should be addressed by a company security policy? (Choose 3)

- A. Theft prevention and data security of WLAN infrastructure devices
- B. Wireless intrusion monitoring and response procedures
- C. WLAN performance analysis baseline documentation
- D. Wired network performance analysis and baseline documentation
- E. Training of the IT staff on WLAN operational security
- F. User density planning and AP client association thresholds

Correct Answer: ABE

QUESTION 18

As you prepare for a site survey in a multi-floor corporate office, you have learned about several wireless devices that support connection-oriented, real-time applications. These applications are sensitive to service interruptions and require excellent signal quality, low latency, and low loss. For that reason, it is important to identify sources of RF interference as well as building characteristics that would cause RF blockage or dead spots.

What systems or environmental characteristics are most likely to cause interference or RF blockage and disrupt service for these applications? (Choose 2)

- A. Microwave ovens
- B. Narrow hallways
- C. Elevator shafts
- D. RFID chokepoints
- E. Workspace dividers

Correct Answer: AC

QUESTION 19

XYZ Company has hired you to perform an indoor site survey of their 5-story facility. They own the building and rents out unused floors (floors 2 and 4) to other companies, and the other companies already use 802.11 WLANs. XYZ Company wants all of the offices they occupy to be surveyed as part of the project.

What actions should be recommended as part of the site survey project? (Choose 2)

- A. Verify that RF signals from XYZ Company's APs are not penetrating outside the perimeter of the building.
- B. Determine how much signal strength is passing between floors.
- C. Locate wiring closets on each floor occupied by XYZ Company.
- D. Identify security best practice violations on neighboring WLANs.
- E. Verify that XYZ Company's APs are not directly above or below APs on adjacent floors.

Correct Answer: BC

QUESTION 20

You are an independent contractor, hired to perform an indoor site survey and network design for Luxury Full Service Hotels International. The network will support hotel staff and guest users. You are interviewing the network manager to determine business, performance, and security requirements for the future 802.11 WLAN.

What questions should you ask the IT manager? (Choose 2)

- A. What data cabling is currently installed in the rooms and throughout the hotel?
- B. How much RF loss do you expect between hotel rooms?
- C. Who installed your existing wired network?
- D. What types of applications will be used by the hotel staff?
- E. On what frequency do the microwave ovens operate in the hotel suites?

Correct Answer: AD

QUESTION 21

ABC Company is planning to install a new 802.11ac WLAN, but wants to upgrade its wired infrastructure first to provide the best user experience possible. ABC Company has hired you to perform the RF site survey. During the interview with the network manager, you are told that the new Ethernet edge switches will support VoIP phones and 802.11 access points, both using 802.3 PoE. After hearing this information, what immediate concerns do you note?

- A. VoIP phones and 802.11 access points should not be powered by the same edge switch due to distortion.
- B. The edge Ethernet switches should support Ether-channel to get the best results out of the network.
- C. If the switches are in optimal locations for VoIP phones, they are likely to be suboptimal locations for 802.11 APs.
- D. The power budget in the edge switches must be carefully planned and monitored based on the number of supported PoE devices.

Correct Answer: D

QUESTION 22

When performing a site survey for a Multiple Channel Architecture (MCA) system in a multi-tenant building with five floors, what aspect should you, as the site surveyor, keep in mind?

- A. The RF interference caused by passing airplanes supporting on-board Wi-Fi should be a prime consideration.
- B. The omni-directional antennas of the access points should be oriented parallel to the floor to maximize the coverage pattern across as many floors as possible.
- C. The channel reuse pattern should be three dimensional with the RF cell extending coverage of each access point to other floors.
- D. The Fresnel Zone is completely blocked between floors so each floor is considered a separate site survey.

Correct Answer: C

QUESTION 23

You were previously onsite at XYZ's facility to conduct a pre-deployment RF site survey. The WLAN has been deployed according to your recommendations and you are onsite again to perform a post-deployment validation survey.

When performing this type of post-deployment RF site survey for VoWiFi, what are two steps that must be performed? (Choose 2)

- A. Coverage analysis to verify appropriate coverage and roaming boundaries
- B. Spectrum analysis to locate and identify RF interference sources
- C. Frequency-band hopping analysis to detect improper RF channel implementations
- D. Protocol analysis to discover channel use on neighboring APs
- E. Application analysis with an active phone call on a VoWiFi handset

Correct Answer: AE

QUESTION 24

A company has hired you to perform a pre-deployment site survey of their facility. During an interview, the network manager informs you that the new wireless network must use 5 GHz bands and OFDM, and VoWiFi handsets will be used extensively over the wireless network.

What items do you need to include in the RF site survey report? (Choose 2)

- A. A heat map demonstrating signal quality in areas where VoWiFi is supported.
- B. Codec types and sampling rates for each VoWiFi phone
- C. Security parameters and configuration steps for VoWiFi handsets.
- D. Test results from an active survey with a VoWiFi handset
- E. Results of OFDM versus ERP performance in each BSA

Correct Answer: AD

QUESTION 25

You are onsite with a client to perform a post-deployment site survey. When verifying a multiple channel VoWiFi deployment using a VoWiFi handset, which aspect is most important?

- A. Performing protocol analysis with a single wireless adapter that is scanning all channels in use
- B. Testing a constant conversation or handset tone while roaming from area to area, or performing an active survey
- C. Configuring DSCP-to-802.11e QoS maps on the handset for each access category.
- D. Verifying the VHT functionality to handle the call volume incurred by a single VoIP phone call.

Correct Answer: B

QUESTION 26

You are being interviewed by ABC Company for employment as a wireless site survey expert. The

interviewing manager asks you what items should be included in a site survey report generated as part of a manual site survey process.

What answer would be accurate? (Choose 2)

- A. Itemized list of equipment, licenses, and support contracts required for the facility
- B. RF heat map illustrating coverage and signal quality for each frequency band
- C. Documentation proving proper entry of wall material types into the site survey software
- D. Documentation noting where each access point will be placed and how it will be mounted
- E. Documentation noting how each WLAN user group will authenticate to the network

Correct Answer: BD

QUESTION 27

In addition to coverage analysis results, what should be included in a site survey report to ensure WLAN users experience acceptable performance?

- A. Application Layer protocol availability analysis results
- B. Layer 4 protocol availability analysis results
- C. Capacity analysis results
- D. WAN interface analysis results

Correct Answer: C

QUESTION 28

What advantages does using predictive site survey modeling software offer over performing a manual site survey? (Choose 2)

- A. Predictive modeling software can predict the ideal access point location 100% of the time, whereas the results from manual surveying are less reliable.
- B. Predictive modeling software makes it simple to assess multiple different AP locations and then adjust and display the AP's expected coverage pattern in almost real-time.
- C. Predictive modeling software provides more reliable data than manual surveys when fine-tuning and validating access point placement after the installation.
- D. The exact impact of interference sources from external networks can be more accurately measured when using predictive modeling software than with manual surveys.
- E. It takes less time to create an initial site survey for a large facility when using predictive modeling software than when performing a manual survey.

Correct Answer: BE

QUESTION 29

Your consulting firm has recently been hired to complete a site survey for a company. Your engineers use predictive modeling software for surveying, but the company insists on a pre-deployment site visit. What tasks should be performed as part of the pre-deployment visit to prepare for a predictive survey? (Choose 2)

- A. With a spectrum analyzer, identify the type, amplitude, and location of RF interference sources, if any are present.
- B. Evaluate the building materials at ABC's facility and confirm that the floor plan documents are consistent with the actual building.
- C. Test several antenna types connected to the intended APs for use in the eventual deployment.
- D. Collect information about the company's security requirements and the current configuration of their RADIUS and user database servers.
- E. Install at least one AP on each side of the exterior walls to test for co-channel interference through these walls.

Correct Answer: AB

QUESTION 30

What item is essential for performing a manual RF site survey for a warehouse facility?

- A. A facility map with an explanation of applications used in each area
- B. I-Beam mounting kits for hanging temporary access points
- C. Low-gain omni antennas for APs mounted high on warehouse ceilings
- D. Predictive site survey software that supports highly directional antennas
- E. NEMA enclosures that protect APs used for the survey

Correct Answer: A

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