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**QUESTION 1**

Which explanations of antenna usage are the most accurate? (Choose 2)

- A. A parabolic dish antenna is ideal for directing a beam down a long hallway.
- B. An omni-directional antenna is well-suited to provide wireless coverage in most homes.
- C. Patch antennas are mounted in the center of a lecture hall to provide circular coverage.
- D. A dipole antenna is mounted to a perimeter wall in school buildings to provide coverage inside the building.
- E. A grid antenna is designed to perform favorably as part of an outdoor point-to-point link under windy conditions.

Correct Answer: BE

QUESTION 2

In preparation for site surveys, your company is creating a questionnaire that will help you understand your customer's client connectivity requirements. What question is NOT appropriate for your company's presurvey questionnaire?

- A. What applications will be used by Wi-Fi client devices on the wireless network?
- B. How will Power over Ethernet (PoE) be supplied to Wi-Fi client devices?
- C. How many concurrent Wi-Fi client connections are expected on the wireless network?
- D. What types of Wi-Fi client devices will be connected to the wireless network?
- E. What 802.11 physical technology (PHY) will be used by the Wi-Fi client devices?

Correct Answer: B

QUESTION 3

After your city implemented a municipal Wi-Fi network using 802.11g on channels 1, 6, and 11 near your office, your users have been complaining about poor performance on their 802.11b VoWiFi phones. The best solution for optimizing your 802.11a/g network to support VoWiFi in this scenario is to _____.

- A. Configure your VoWiFi phones for unused 2.4 GHz channels.
- B. Buy new phones that support WPA2-Personal security.
- C. Upgrade your VoWiFi phones to 802.11g.
- D. Buy new 5 GHz capable VoWiFi phones.

Correct Answer: D

**QUESTION 4**

What two factors are used to calculate the wavelength of an RF wave? (Choose 2)

- A. Frequency
- B. Speed of light
- C. Amplitude
- D. Phase

Correct Answer: AB

QUESTION 5

Given: You are performing a site survey using software that simulates RF behavior in a defined environment. It uses a floor plan and materials information for its calculations.

What kind of site survey is performed using this method?

- A. Manual
- B. Active
- C. Predictive
- D. Passive

Correct Answer: C

QUESTION 6

Where is the use of a Wireless Internet Service Provider (WISP) most appropriate?

- A. Wi-Fi bridging between two or more buildings within a city
- B. To provide guest access to the Internet in an office building
- C. As hot-spot connectivity in large airports and conference centers
- D. Last mile wireless data delivery to homes and businesses

Correct Answer: D

QUESTION 7

Given: A customer has recently purchased an 802.11g access point that accepts multiple external antennas. The customer wants to know if they need to purchase multiple antennas or a single antenna for the AP.

What do you tell them is a benefit of using multiple antennas?



- A. Additional gain and therefore a larger coverage area
- B. Additional functionality through enabling of repeater features
- C. Transmit and receive diversity that addresses multipath problems
- D. Improved throughput by enabling full-duplex communication

Correct Answer: C

QUESTION 8

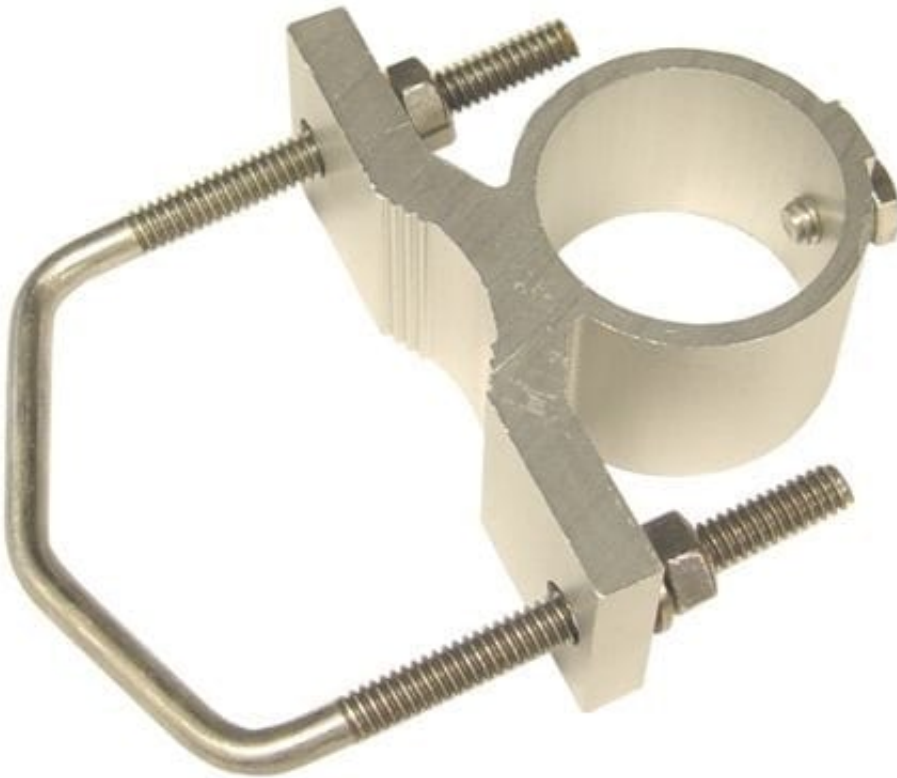
Identify the strongest passphrase-based security mechanism for 802.11 wireless networks.

- A. TKIP
- B. WPA-PSK
- C. WPA2-Personal
- D. RC4
- E. WEP

Correct Answer: C

QUESTION 9

Exhibit:



In what type of Wi-Fi deployment is an antenna mounted using a pole mounting kit, as shown in the exhibit?

- A. Indoor Mesh
- B. Outdoor Bridging
- C. Office space APs
- D. Hotel guest access

Correct Answer: B

QUESTION 10

What is one difference between autonomous access points and controller-based access points?

- A. Controller-based access points can be centrally managed, but autonomous access points cannot.
- B. Controller-based access points support client roaming, but autonomous access points do not.
- C. Controller-based access points cannot be configured on an individual basis, but autonomous access points can.
- D. Controller-based access points associate to a WLAN controller, but autonomous access points do not.

Correct Answer: D

**QUESTION 11**

What tool is best suited for locating and identifying sources of RF interference, such as microwave ovens?

- A. Spectrum analyzer
- B. Wi-Fi client utilities
- C. Wireless protocol analyzer
- D. Predictive analysis software
- E. High-gain omni antenna

Correct Answer: A

QUESTION 12

Given: Several users are required to transfer files among themselves in a conference room. No APs are available for connections to the network infrastructure. All users have laptops with 802.11 wireless adapters installed and operational. What can you implement to allow users to transfer files when 802.11 adapters are available, but no wireless LAN infrastructure is accessible?

- A. ESS
- B. BSS
- C. IBSS
- D. BSSID
- E. SSID

Correct Answer: C

QUESTION 13

ABC Manufacturing currently has 35 access points throughout their main facility, and each Friday afternoon two administrators walk the premises with spectrum and protocol analyzers to detect unauthorized devices and network activity. You have noted several problems with this approach. To address the inefficiencies with this approach and to provide the most robust preventative security, you have set aside a portion of the department's budget to install a _____.

- A. Full-time Spectrum Analyzer
- B. Full-time Protocol Analyzer
- C. Wireless Distribution System (WDS)
- D. Single Channel Architecture (SCA) system
- E. Wireless Intrusion Prevention System (WIPS)



Correct Answer: E

QUESTION 14

Virtual Private Network (VPN) solutions are often used in conjunction with Wi-Fi networks for what purpose?

- A. Endpoint security for travelling users connected to unsecure Wi-Fi hot-spots
- B. Validating user identity when using 802.1X/EAP security
- C. Capturing and analyzing wireless network frames
- D. Managing access points that are connected to WLAN controllers

Correct Answer: A

QUESTION 15

Which Wi-Fi vertical market applications are regulated by a government or industry group for security compliance?
(Choose 2)

- A. Patient records in hospitals
- B. Guest Internet services in coffee shops
- C. Inventory management in warehouses
- D. Location services on cargo ships
- E. Consumer payment information in retail stores

Correct Answer: AE

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