



Certified Wireless Network Administrator

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# **QUESTION 1**

What authentication method is referenced in the 802.11-2016 and 802.11-2020 specifications and is recommended for robust WI-AN client security?

A. SSL

B. 802.1X/EAP

C. IPSec

D. WEP

Correct Answer: B

The authentication method that is referenced in the 802.11-2016 and 802.11-2020 specifications and is recommended for robust WLAN client security is 802.1X/EAP. 802.1X/EAP stands for IEEE 802.1X Port- Based Network Access Control with Extensible Authentication Protocol and is a framework that provides strong authentication and dynamic encryption key generation for WLAN clients. 802.1X/EAP involves three parties: the supplicant (the client), the authenticator (the AP or the controller), and the authentication server (usually a RADIUS server). The supplicant sends its credentials (such as username and password, certificate, or token) to the authenticator, which forwards them to the authentication server. The authentication server verifies the credentials and sends a response to the authenticator, which grants or denies access to the supplicant. The authentication server also generates a master key that is used to derive encryption keys for the data frames between the supplicant and the authenticator. 802.1X/EAP supports various EAP methods that offer different levels of security and flexibility, such as EAP-TLS, EAPPEAP, EAP-TTLS, EAP-FAST, and EAP-SIM. SSL, IPSec, and WEP are not authentications. References: [CWNP Certified Wireless Network Administrator Official Study Guide: WNA-107], page 299; [CWNA: Certified Wireless Network Administrator Official Study Guide: WNA-106], page 289.

### **QUESTION 2**

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

A. Grid antennas at each endpoint

- B. A Fresnel Zone that is at least 60% clear of obstructions
- C. A minimum antenna gain of 11 dBi at both endpoints
- D. Minimum output power level of 2 watts

Correct Answer: B

### **QUESTION 3**

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

A. The RF interference caused by passing airplanes supporting on-board Wi-Fi should be a prime consideration



B. The channel reuse pattern should be three dimensional with the RF cell extending coverage of each access point to other floors

C. 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

D. The Fresnel Zone is completely blocked between floors so each floor is considered a separate site survey

Correct Answer: B

# **QUESTION 4**

A natural disaster has occurred in a remote area that is approximately 40 miles from the response team headquarters. The response team must setup a local wireless network using 802.11 WLAN access points. What is the best method, of those listed, for implementation of a network backhaul for communications across the Internet in this scenario?

- A. Temporary wired cable
- B. 802.11 bridging
- C. Cellular/LTE
- D. Temporary wired DSL

Correct Answer: C

### **QUESTION 5**

What cipher suite is specified by the 802.11-2016 standard and is not deprecated?

- A. Wired Equivalent Privacy
- B. Temporal Key Integrity Protocol
- C. Counter Mode with CBC-MAC Protocol
- D. Extensible Authentication Protocol

Correct Answer: C

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