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QUESTION 1

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

QUESTION 2

What is appended to the end of each 802.11 data frame after the payload?

- A. FCS
- B. Preamble
- C. MAC header
- D. PHY header

Correct Answer: A

QUESTION 3

You are a small business wireless network consultant and provide WLAN services for various companies. You receive a call from one of your customers stating that their laptop computers suddenly started experiencing much slower data transfers while connected to the WLAN. This company is located in a multi-tenant office building and the WLAN was designed to support laptops, tablets and mobile phones. What could cause a sudden change in performance for the laptop computers?

- A. The sky was not as cloudy that day as it typically is and the sun also radiates electromagnetic waves.
- B. A new tenant in the building has set their AP to the same RF channel that your customer is using.
- C. The antennas in the laptops have been repositioned.
- D. A few of your customer's users have Bluetooth enabled wireless headsets.

Correct Answer: B

A possible cause of a sudden change in performance for the laptop computers is that a new tenant in the building has set their AP to the same RF channel that your customer is using. This can create co-channel interference (CCI), which is a situation where two or more APs or devices use the same or overlapping channels in the same area. CCI can degrade the performance of WLANs by increasing contention, collisions, retransmissions, and latency. CCI can also reduce the effective range and throughput of WLANs by lowering the signal-to-noise ratio (SNR). To avoid or mitigate



CCI, it is recommended to use non- overlapping channels, adjust transmit power levels, or implement channel management techniques such as dynamic frequency selection (DFS) or load balancing. The sky condition, antenna position, or Bluetooth headset are not likely to cause a sudden change in performance for the laptop computers. References: [CWNP Certified Wireless Network Administrator Official Study Guide: WNA-107], page 81; [CWNA: Certified Wireless Network Administrator Official Study Guide: WNA-106], page 71.

QUESTION 4

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 5

You are evaluating access points for use in the 5GHz frequency band. What PHY supports this band and supports 80 MHz channels?

- A. OFDM
- B. HT
- C. VHT
- D. ERP

Correct Answer: C

Reference <https://www.cwnp.com/802-11ac-vht-just-the-facts/>

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