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# **CWNP** Certified Wireless IoT Solutions Administrator(2025 Edition) Sample Questions (Q61-Q66):

#### **NEW QUESTION #61**

What function does the IEEE perform in relation to wireless technologies?

- A. Promotes technology and standards development
- B. Designs wireless chipsets
- C. Certified equipment to be compatible
- D. Brings wireless products to market

#### Answer: A

#### Explanation:

- \* IEEE's Role: The Institute of Electrical and Electronics Engineers (IEEE) is a global organization critical in developing and promoting technical standards across various fields, including wireless technologies.
- \* Standards Work: IEEE creates wireless technology standards like:
- \* IEEE 802.11: Wi-Fi standards
- \* IEEE 802.15.4: Basis for ZigBee, Thread, and other low-power networks References
- \* IEEE: https://www.ieee.org/

#### **NEW QUESTION #62**

In a wireless link, as the signal strength decreases, what else may decrease?

- A. Interference
- B. Latency
- C. Transmission speeds

• D. Noise

#### Answer: C

#### Explanation:

- \* Signal Strength and Data Rate: In wireless links, weaker signal strength often directly correlates to reduced transmission speeds. Modern wireless technologies use adaptive modulation and coding, sacrificing speed for reliability when signals become weaker.
- \* Noise and Interference: While these can impact performance, they don't inherently decrease simply because signal strength drops.
- \* Latency: Latency can be affected by poor signal, but its primary drivers are distance and network congestion.

#### References:

Wireless Signal Strength vs. Speed: Articles explaining the relationship and how adaptive modulation works.

Modulation and Coding Schemes (MCS): Technical descriptions of how Wi-Fi and other wireless technologies adjust speeds based on signal quality.

#### **NEW QUESTION #63**

What advantage is provided by using an NTP server within a wireless solution architecture?

- A. It provides for semi-automatic IP addressing in wireless sensor networks
- B. It ensures security through AES encryption
- C. It provides for name resolution for older network devices
- D. It ensures uniform, synchronized time among devices

#### Answer: D

#### Explanation:

- \* Importance of Time Sync in IoT: Coordinated actions, accurate data analysis, and event logging in wireless IoT solutions often rely on devices having a shared time reference.
- \* NTP's Role: Network Time Protocol (NTP) enables devices to synchronize their clocks against a reliable time source (NTP server), ensuring consistency across the network.
- \* Why Other Options Don't Fit:
- \* IP Addressing: Usually handled by DHCP, not NTP.
- \* Encryption: SSL/TLS secure data in transit, not related to timekeeping.
- \* Name Resolution: Purpose of DNS, not NTP.

#### References:

Network Time Protocol (NTP): How it works and its importance in distributed systems.

IoT Time Synchronization Challenges: Articles highlighting the need for accuracy in sensor networks and similar use cases.

#### **NEW QUESTION #64**

What does the number in the various Quadrature Amplitude Modulation levels, such as 16 in QAM-16 and 64 in QAM-64, indicate? (Choose the single best answer.)

- A. The speed of data transfer, which is four times the number in the QAM level
- B. The number of spatial streams, which is 1/4 the number in the QAM level
- C. The channel width, which is stipulated in MHz
- D. The number of target points in the QAM constellation, which are equivalent to amplitude and phase combinations

#### Answer: D

#### Explanation:

- \* QAM Constellations: QAM (Quadrature Amplitude Modulation) uses a constellation diagram where points represent unique combinations of amplitude and phase.
- \* Bits per Symbol: The number in QAM-XX indicates the number of points:
- \* QAM-16: 16 points = 2