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**Vendor:**CWNP

**Exam Code:**PW0-100

**Exam Name:**Certified wireless network  
administrator(cwna)

**Version:**Demo

### QUESTION 1

As XYZ Company's wireless specialist, you have been asked to troubleshoot some unexpected frame patterns in a wireless protocol capture. Your peers explain that the network's beacon frames are inconsistent. That is, the BSSID is the same for all beacons, but the source address varies between three different addresses.

What network configuration would cause this beacon frame behavior?

- A. A single AP supports multiple BSSs with different SSIDs
- B. A virtual cell single channel network has been implemented
- C. The beacons are from an IBSS instead of a BSS
- D. Three APs still share the same default configuration.

Correct Answer: C

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### QUESTION 2

Given:

Network users and IT personnel at a large machinery 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 taking any site survey or implementation steps. The first order of discussion in the meeting is corporate policy concerning implementation and use of WLAN technology.

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

- A. Vendor hardware recommendations
- B. Business justification
- C. User productivity impact
- D. Antenna types
- E. Obtaining permits and zoning requirements

Correct Answer: BC

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### QUESTION 3

What terms accurately complete the following sentence? The IEEE 802.11-2007 standard specifies mandatory support of the \_\_\_\_\_ cipher suite for Robust Security Network Associations, and optional use of the \_\_\_\_\_ cipher suite, which is designed for use with pre-RSNA hardware.

- A. CCMP, TKIP

- B. 802.1X/EAP, WEP
- C. TLS, SSL
- D. CCKM, WPA
- E. RC5, RC4

Correct Answer: A

**QUESTION 4**

Given the Wi-Fi certification shown in the exhibit, what statement is FALSE about this device?

### Wi-Fi CERTIFIED™ Interoperability Certificate



**Certification ID: WFA11082**

This certificate lists the capabilities and features that have successfully completed Wi-Fi Alliance interoperability testing. Additional information about Wi-Fi Alliance certification programs is available at [www.wi-fi.org/certification\\_programs.php](http://www.wi-fi.org/certification_programs.php).

Tested Spatial Streams	Dual-Band Selectable	
	2.4 GHz	5.0 GHz
Transmit	1	1
Receive	1	1

**Certificate Date:** March 04, 2011  
**Company:** [Redacted]  
**Product:** [Redacted]  
**Model/SKU #:** [Redacted]  
**Category:** Tablet

IEEE Standard	Security	Multimedia	Convergence
IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n IEEE 802.11h	WPA® - Enterprise, Personal WPA2® - Enterprise, Personal  <u>Vendor EAP Type(s)</u> EAP-TLS EAP-TTLS/MSCHAPv2 PEAPv0/EAP-MSCHAPv2 PEAPv1/EAP-GTC	WMM®	CWG-RF

- A. This client device supports protection mechanisms such as RTS/CTS and/or CTS-to-Self.
- B. This client device supports both TKIP and CCMP cipher suites.
- C. 300 Mbps is the maximum supported data rate for this device.
- D. This client device supports the ERP, OFDM, and HT physical layer specifications.
- E. This client device supports X.509 certificates for EAP authentication.

Correct Answer: C

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### QUESTION 5

As a consultant, you've been hired by XYZ Company to provide recommendations about client device selection, operation, and interoperability. What information should be considered to help them choose the right WLAN client devices?

- A. 802.11n OFDM is more susceptible to high-power, narrowband interference than 802.11a OFDM.
- B. In order to earn Wi-Fi Alliance certification, 802.11n clients stations are required to support both 2.4 and 5 GHz frequencies
- C. 802.11a/g devices may support WMM, but all 802.11n devices are required to support WMM.
- D. An 802.11g/n AP that is configured to support only OFDM data rates will allow HR/DSSS devices to associate.
- E. When HR/DSSS devices are present, HT MCS rates are disabled for the entire BSS.

Correct Answer: C

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### QUESTION 6

ABC Company has a 2.4 and 5 GHz WLAN deployment supporting four bands in the 5 GHz range (UNII 1, UNII 2, UNII 2e, and UNII 3). DFS functionality is enabled as required by the regulatory domain. Band steering is also enabled to encourage dual-band clients to use frequency bands with more capacity.

Your performance analysis shows that many dual-band VoWiFi client devices will move back and forth between 2.4 and 5 GHz as the user roams throughout the building. All APs have 2.4 and 5 GHz radios enabled. This "band hopping" behavior is viewed by network staff to be undesirable. What is the most likely cause of the unpredictable client band selection behavior?

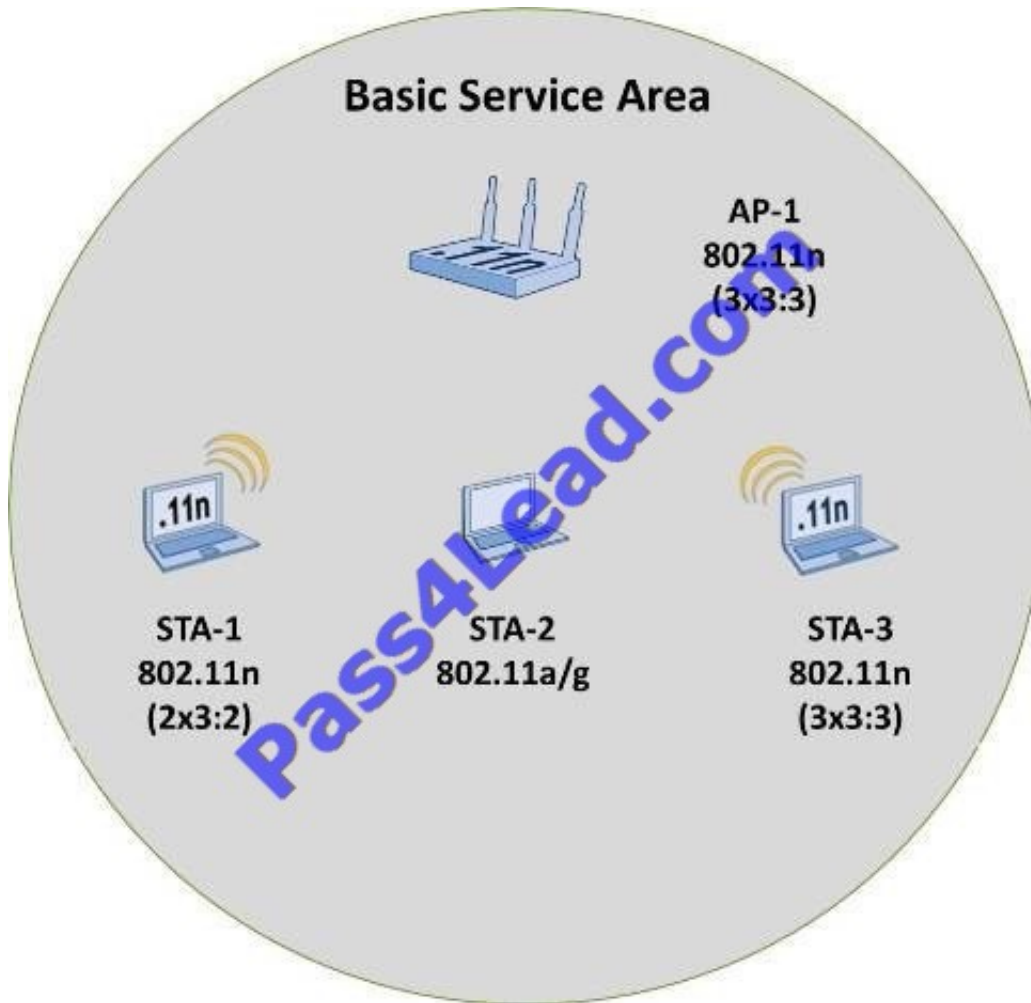
- A. Interference from 5 GHz radar sources has increased frame corruption and retries on channels 36-48 in UNII 1.
- B. 5 GHz frequencies offer better RF penetration than 2.4 GHz, but 2.4 GHz offers more voice call capacity and lower latency than 5 GHz.
- C. The voice client does not support DFS, and therefore experiences some 5 GHz coverage holes as it moves through the network.
- D. The client's band selection algorithm prefers 5 GHz, but band steering behavior usually steers 75- 85% of client devices to 2.4 GHz.

Correct Answer: C

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### QUESTION 7

Using the exhibit as a reference,



what is the maximum number of spatial streams that could be used for a downlink HT-OFDM transmission from AP-1 to STA-3?

- A. One spatial stream, because the BSS must maintain backwards compatibility with STA-2, which supports only 802.11g (ERP) without MIMO or multiple spatial streams.
- B. Two spatial streams, because the number of spatial streams for an HT-OFDM transmission is limited to the capabilities of the least capable HT station in the BSS.
- C. Two spatial streams, because the third transmit chain in the HT AP must be used simultaneously for protection mechanisms with the 802.11g (ERP) station.
- D. Three spatial streams, because HT-OFDM transmissions will be preceded with protection mechanisms using a basic data rate for STA-2 and possibly STA-1.

Correct Answer: D

### QUESTION 8

Given:

As a consultant, you have been hired by ABC Company to implement an outdoor WLAN connection between two buildings that are 2 kilometers (1.24 miles) from each other, with no obstructions in between.

Your first required objective is to create a point-to-point link between the two buildings within the local regulatory body's 800 mW EIRP maximum.

Your second required objective is to provide an industry-standard security solution capable of supporting mutual authentication.

As an optional objective, you must minimize the amount of interference from, and to, nearby WLAN networks.

You install an OFDM wireless bridge at each building, configuring one in root mode and the other in non-root mode. You set each radio for 100 mW (20 dBm) and attach 9 dBi omni-directional antennas to both. You configure the network for WPA2-Enterprise with PEAPv0/EAP-MSCHAPv2 authentication.

Which statement is true about the solution you chose to deploy?

- A. Your solution meets both required objectives and the optional objective.
- B. Your solution meets the first required objective and the optional objective, but not the second objective.
- C. Your solution meets the second required objective and the optional objective, but not the first required objective.
- D. Your solution meets neither required objective but meets the optional objective.
- E. Your solution meets both required objectives, but does not meet the optional objective.
- F. Your solution does not meet either required objective, or the optional objective.

Correct Answer: E

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#### QUESTION 9

In an 802.11n 2.4 GHz BSS, what prevents each station from using the full network bandwidth (e.g. 130 Mbps) when multiple clients are actively exchanging data with the AP? (Choose two)

- A. Radio receiver hardware cannot process data as quickly as it can be transmitted.
- B. Half of the bandwidth is allocated to uplink traffic and half to downlink traffic.
- C. The DCF and EDCA coordination functions require backoff algorithms
- D. WLAN devices cannot detect collisions and must receive positive frame acknowledgment.
- E. WLANs rely on the CSMA/CD protocol and must wait a collision detection period after each frame is transmitted.

Correct Answer: CD

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#### QUESTION 10

What word describes the bending of an RF signal as it passes from one medium to another medium of a different density?

- A. Diffraction
- B. Reflection

- C. Refraction
- D. Diffusion
- E. Scattering

Correct Answer: C

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#### **QUESTION 11**

What term correctly completes the following sentence?

In an IEEE 802.11 frame, the IP packet is considered by the MAC layer to be a(n) \_\_\_\_\_.

- A. MAC Service Data Unit (MSDU)
- B. MAC Protocol Data Unit (MPDU)
- C. Bridge Protocol Data Unit (BPDU)
- D. PLCP Service Data Unit (PSDU)
- E. PLCP Protocol Data Unit (PPDU)

Correct Answer: A

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#### **QUESTION 12**

In an 802.11b/g system, what channels are considered non-overlapping? (Choose two)

- A. Channels 5 and 10
- B. Channels 1 and 5
- C. Channels 3 and 7
- D. Channels 2 and 8
- E. Channels 8 and 11
- F. Channels 10 and 13

Correct Answer: AD

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