



**642-681**

**Advanced Wireless LAN for System Engineers (AWLANSE)**

**Exam number/code:** 642-681

**Exam name:** Advanced Wireless LAN for System Engineers (AWLANSE)

**Questions & Answers:** 297 Q&A

**Related Certifications:** [Specialist](#), [Wireless LAN](#)



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**Exam: 642-681 Certification Questions & Answers**

**Question 1:**

In controller-based architecture, a control message sent between the access point and the controller is encrypted using which protocol?

- A. LWAPP
- B. CCKM
- C. TKIP
- D. AES

**Answer: D**

**Question 2:**

What is the Cisco-recommended signal-to-noise ratio for a data rate of 54 Mbps on a 5-GHz data network?

- A. 25 dB
- B. 35 dB
- C. 30 dB
- D. 40 dB

**Answer: C**

**Explanation:**

The key to this answer is that they are looking at the 54 Mbps data rate in the 5GHz frequency.

**Question 3:**

Which EAP authentication is used by the Cisco Wireless LAN controller for local authentication?

- A. EAP-MD5
- B. No EAP authentication is used.
- C. EAP-TLS
- D. PEAP-MSCHAP
- E. PEAP-GTC

**Answer: B**

**Question 4:**

Implementing Wireless Domain Services on an autonomous access point provides which two benefits? (Choose two.)

- A. VLAN support
- B. quality of service
- C. local authentication services
- D. fast secure roaming
- E. radio management

**Answer: D,E**

**Question 5:**

You have just finished aligning a Cisco Aironet 1400 Series Wireless Bridge link using installation mode. When you set the link back to operational mode you loose association to the root bridge. Which action will correct the problem?

- A. Configure the proper channel.
- B. Enable passwords on both bridges.
- C. Configure the distance parameter value.
- D. Configure the bridge to force infrastructure devices to associate only to the SSID parameter.

**Answer: C**

**Question 6:**

How is the bridge group name used in a wireless mesh deployment?

- A. It is used to retrieve the secret shared key.
- B. It is used as a password in communication preceding LWAPP.
- C. It is used to join the outdoor mesh network with the controller mobility group.
- D. It logically groups access points to avoid interference from neighboring networks.

**Answer: D**

**Question 7:**

The Cisco Wireless LAN Controller can support a maximum of how many VLANs?

- A. Only supports the untagged VLAN 0
- B. 16 VLANs, one per SSID
- C. 512 VLANs
- D. 4095 VLANs
- E. 8 VLANs, one per SSID

**Answer: C**

**Question 8:**

In the

- A. 5.725-5.825 GHz
- B. 2.400-2.483 GHz
- C. 5.150-5.350 GHz
- D. 902-928 MHz

**Answer: A,B,C,D**

**Question 9:**

You are configuring an RF group of controllers that coordinate Radio Resource Management calculations. What is the maximum number of WLAN controllers that you can add?

- A. 12
- B. 17
- C. 20
- D. 24

**Answer: C**

**Question 10:**

When designing a wireless VoIP network, what is the recommended lowest data rate?

- A. 1 Mbps
- B. 11 Mbps
- C. 5.5 Mbps
- D. 2 Mbps

**Answer: B**

**Question 11:**

What is the minimum recommended dBm when designing a VoIP network with 11-Mbps cells, and no more than one access point per overlapping channel set?

- A. -67
- B. -35
- C. -56
- D. -86

**Answer: A**

**Question 12:**

Local Authentication Service on the Cisco Access Point allows a maximum of how many users?

- A. 10
- B. 100
- C. 25
- D. 50

**Answer: D**

**Question 13:**

Controller-based products use X.509 certificates for which of the following?

- A. AES user data frame encryption
- B. IPsec tunneling
- C. 3DES user data frame encryption
- D. LWAPP tunneling

**Answer: D**

**Question 14:**

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In order to prevent many common attacks against WLANs from becoming effective, Management Frame Protection should be implemented in which mode?

- A. Access Point Only
- B. Controller and Access Point
- C. Client Only
- D. Infrastructure Only
- E. Controller Only
- F. Client and Infrastructure

**Answer: F**

### Question 15:

Which Cisco Aironet Series devices can be powered using 802.3af inline power?

- A. Cisco Aironet 1100 Series
- B. Cisco Aironet 1300 Series
- C. Cisco Aironet 1400 Series
- D. Cisco Aironet 1240AG Series

**Answer: D**

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