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**Exam** : **642-681**

**Title** : Advanced Wireless LAN for  
System Engineers Exam

**Version** : DEMO

1. The CiscoWorks Wireless LAN Solution Engine uses which protocol for radio management?

- A. CCKM
- B. LWAPP
- C. SNMP
- D. WLCCP

**Answer: D**

2. Which two key features are unique to the controller-based feature set? (Choose two.)

- A. fast secure roaming
- B. rogue access point detection
- C. access point participation in RF management
- D. access point registration via digital certificate
- E. dynamic RF control without a dedicated management platform

**Answer: DE**

3. The Newton manufacturing company has three facilities that are located in Columbia, South Carolina. The corporate office is located in an 11-story building downtown. The R&D facility is located on the north side of the city approximately 4 miles (6.4 km) from the corporate office in a five-story building. The manufacturing facility is located approximately 6 miles (9.6 km) to the northwest of the corporate office. Line of sight exists from the downtown office to all facilities. Users at the manufacturing plant require network connectivity for file sharing and e-mail, while the users at the R&D facility require high-speed Internet access with the ability to send large CAD drawings to the corporate office and large machine control files to the manufacturing facility. Presently, the manufacturing facility is connected to the corporate office by a 64-kbps leased line, and the R&D facility is connected to both the corporate office and the manufacturing facility by a dedicated T1 line. The company plans to add a second line of development at the R&D facility within the next 60 days. The current T1 lines are at a constant 70-percent utilization rate. The current projected lead time for installation of additional lines is 90 days if the current cable plant will support it.

A wireless bridging solution would provide which three benefits to the customer? (Choose three.)

- A. rapid deployment

- B. immunity to weather
- C. increased bandwidth
- D. guaranteed bandwidth
- E. increased security
- F. lower total cost of ownership

**Answer:** ACF

4. In a mesh network, what is the recommended hop-count limit of a mesh access point from its associated root access point?

- A. 2
- B. 4
- C. 6
- D. 8

**Answer:** B

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

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

**Answer:** B

6. The Cisco 3200 Series Mobile Access Router has integrated wireless support for which two FCC-approved frequency ranges? (Choose two.)

- A. 900 to 928 MHz
- B. 2.400 to 2.4835 GHz
- C. 4.940 to 4.990 GHz
- D. 5.150 to 5.250 GHz
- E. 5.725 to 5.825 GHz

**Answer:** BC

7. Which three wireless intrusion-prevention signatures are part of the standard signature set provided by the Wireless LAN Controller? (Choose three.)

- A. ad-hoc network detection
- B. rogue network detection
- C. rogue access point detection
- D. deauth flood detection
- E. fake access point detection
- F. NetStumbler detection

**Answer:** DEF

8. A customer has a small remote site with 10 standalone access points. In which two of the following scenarios would it be appropriate to implement CiscoWorks WLSE Express? (Choose two.)

- A. EAP-Cisco Wireless (Cisco LEAP) security is required and an external AAA server is available.
- B. EAP-Cisco Wireless (Cisco LEAP) security is required and no external AAA server is available.
- C. EAP-FAST security is required and no external AAA server is available.
- D. EAP-FAST security is required and an AAA server is available.
- E. MAC authentication is required and no external AAA server is available.
- F. MAC authentication is required and an external AAA server is available.

**Answer:** BC

9. What is the Cisco-recommended limit of standalone access points to be managed by a CiscoWorks WLSE 1130-19 with RF management enabled?

- A. 1000
- B. 1500
- C. 1800
- D. 2500

**Answer:** C

10. What is the maximum number of access points that a high-end Cisco WCS server can support?

- A. 500
- B. 1000
- C. 1500
- D. 3000

**Answer: D**

11. Which one of the following integrated services routers supports the integrated 2.4-GHz b/g access points?

- A. Cisco 1812
- B. Cisco 1811
- C. Cisco 1841
- D. Cisco 1803

**Answer: C**

12. A customer in the United States requires connectivity between two campus locations that are located 6 miles (9.65 km) apart. The customer also needs a minimum data rate of 54 Mbps in an area that is known to have 2.4-GHz interference. Which two devices will provide a bridge link and avoid the interference? (Choose two.)

- A. Cisco Aironet 1100 Series Access Point
- B. Cisco Aironet 1210 Series Access Point
- C. Cisco Aironet 1242AG Series Access Point
- D. Cisco Aironet 1300 Series Outdoor Access Point/Bridge
- E. Cisco Aironet 1400 Series Wireless Bridge

**Answer: CE**

13. The Newton Manufacturing Company has three facilities that are located in Columbia, South Carolina. The corporate office is located in an 11-story building downtown. The R&D facility is located on the north side of the city approximately 4 miles (6.4 km) from the corporate office in a five-story building. The manufacturing facility is located approximately 6 miles (9.6 km) to the northwest of the corporate office. Line of sight exists from the downtown office to all facilities. Users at the manufacturing plant require

network connectivity for file-sharing and e-mail, while the users at the R&D facility require high-speed Internet access with the ability to send large CAD drawings to the corporate office and large machine control files to the manufacturing facility. Presently, the manufacturing facility is connected to the corporate office by a 64-kbps leased line, and the R&D facility is connected to both the corporate office and the manufacturing facility by a dedicated T1 line. The company plans to add a second line of development at the R&D facility within the next 60 days. The current T1 lines are at a constant 70 percent utilization rate. The current projected lead time for installation of additional lines is 90 days if the cable plant will support it.

Which deployment option would provide the most benefit to the customer?

- A. point-to-point link from corporate to manufacturing, and a point-to-point link from corporate to R&D
- B. point-to-multipoint solution with the root bridge located at the manufacturing facility
- C. point-to-multipoint solution with the root bridge located at the corporate office
- D. point-to-multipoint solution with the root bridge located at the R&D facility

**Answer: D**

14. OFDM provides which improvement over DSSS in the 2.4-GHz range?

- A. greater resistance to multipath interference
- B. more nonoverlapping channels
- C. more bandwidth per channel
- D. full-duplex communication

**Answer: A**

15. How many prior configuration versions can be archived on the CiscoWorks WLSE?

- A. two
- B. four
- C. six
- D. eight

**Answer: B**

16. Which two statements correctly describe the Cisco Catalyst WiSM? (Choose two.)

- A. It supports up to 100 access points per module.
- B. It supports up to 200 access points per module.
- C. It supports up to 300 access points per module.
- D. It has a maximum of four modules per chassis.
- E. It has a maximum of five modules per chassis.
- F. It has a maximum of six modules per chassis.

**Answer: CE**

17. How many mesh access points can be placed on a map with efficient link rendering in Cisco WCS?

- A. 50
- B. 100
- C. 150
- D. 200

**Answer: B**

18. What is the maximum number of wireless devices that a Cisco 2700 Series Wireless Location Appliance can track, operating with Cisco WCS version 4.0?

- A. 500
- B. 1000
- C. 1500
- D. 2500

**Answer: D**

19. Which three devices are required to implement a Cisco 2700 Series Wireless Location Appliance?

(Choose three.)

- A. wireless controller
- B. wireless domain server
- C. Cisco Wireless Control System
- D. controller-based access point
- E. standalone access point



F. CiscoWorks Wireless LAN Solution Engine

**Answer:** ACD

20. Which statement describes how RSSI information is processed in a WLAN with a location appliance using controller-based products?

A. Access points aggregate RSSI information.

B. WLAN controllers compute RSSI information.

C. The location appliance collects the RSSI information.

D. The Cisco WCS collects and aggregates the RSSI information and forwards it to the location appliance.

**Answer:** C