

CCNA 3 Chapter 4 v5.0 Exam Answers 2015 (100%)

1. Which organization certifies vendors for adherence to the 802.11 standards to improve interoperability of 802.11 products?
 - FCC
 - IEEE
 - ITU-R
 - **Wi-Fi Alliance**
2. Which two roles are typically performed by a wireless router that is used in a home or small business? (Choose two.)
 - repeater
 - **access point**
 - WLAN controller
 - **Ethernet switch**
 - RADIUS authentication server
3. What type of wireless antenna is best suited for providing coverage in large open spaces, such as hallways or large conference rooms?
 - **omnidirectional**
 - directional
 - Yagi
 - Dish
4. Which feature of 802.11n wireless access points allows them to transmit data at faster speeds than previous versions of 802.11 Wi-Fi standards did?
 - SPS
 - WPS
 - **MIMO**
 - MITM
5. What is a difference between Cisco APs that operate in a home environment and Cisco APs that operate in a corporate environment?
 - Autonomous APs are used only in the home environment, and they incorporate the functions of a router, switch, and AP into one device.
 - Controller-based APs are used in the corporate environment, and they are server-dependent devices that require an initial configuration to operate.
 - Cisco corporate APs do not support PoE.

- Some corporate AP models can operate in either autonomous mode or controller-based mode.

6. Which type of wireless topology is created when two or more Basic Service Sets are interconnected by Ethernet?

- IBSS
- BSS
- WiFi Direct
- **ESS**
- ad hoc WLAN

7. Which type of management frame may regularly be broadcast by an AP?

- **beacon**
- probe request
- authentication
- probe response

8. Which statement defines the control frame operation between two stations?

- A station sends an RTS frame as the first step in a three-way handshake that is required before sending data frames.
- A station responds to an RTS frame with an ACK frame, thus providing permission for the requesting station to send a data frame.
- If the sending station does not receive an ACK frame within a predetermined period of time, the sending station will drop the connection.
- **After receiving a data frame, the receiving station will send an ACK frame to the sending station if no errors are found.**

9. A student uses a laptop to upload an assignment to a file server. Which wireless frame type did the laptop send to locate and associate with the campus access point?

- beacon frame
- control frame
- data frame
- **management frame**

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11. During which stage of establishing connectivity between a WLAN client and an AP does the client learn the MAC address of the AP?

- discovery
- probing
- **association**
- encryption
- authentication

12. For which discovery mode will an AP generate the most traffic on a WLAN?

- **passive mode**
- open mode
- mixed mode
- active mode

13. What is an advantage of SSID cloaking?

- It provides free Internet access in public locations where knowing the SSID is of no concern.
- **Clients will have to manually identify the SSID to connect to the network.**
- SSIDs are very difficult to discover because APs do not broadcast them.
- It is the best way to secure a wireless network.

14. If three 802.11b access points need to be deployed in close proximity, which three frequency channels should be used? (Choose three.)

- **1**
- 3
- 5
- **6**
- 8
- **11**

15. Which three Wi-Fi standards operate in the 2.4GHz range of frequencies? (Choose three.)

- 802.11a
- **802.11b**
- **802.11g**

- 802.11n
- 802.11ac

16. Which security mode is the least secure choice when a home wireless router is configured?

- WPA
- WPA2
- WEP
- WPA2-Personal

17. A administrator wishes to extend the range of the existing IEEE 802.11n network without changing the AP. What can the administrator do to accomplish this?

- Upgrade the firmware on the AP.
- Split the wireless traffic between the 802.11n 2.4 GHz band and the 5 GHz band.
- Deploy a Wi-Fi Range Extender.
- Change to WPA2 authentication.

18. A company has recently implemented an 802.11n wireless network. Some users are complaining that the wireless network is too slow. Which solution is the best method to enhance the performance of the wireless network?

- Replace the wireless NICs on the computers that are experiencing slow connections.
- Split the traffic between the 2.4 GHz and 5 GHz frequency bands.
- Disable DHCP on the access point and assign static addresses to the wireless clients.
- Upgrade the firmware on the wireless access point.

19. An employee connects wirelessly to the company network using a cell phone. The employee then configures the cell phone to act as a wireless access point that will allow new employees to connect to the company network. Which type of security threat best describes this situation?

- cracking
- denial of service
- rogue access point
- spoofing

20. Fill in the blank. Do not use abbreviations.

Ad hoc wireless topologies sometimes can use a feature called **tethering** to enable a smartphone to create a personal hotspot.

21. Match the type of attack to its description. (Not all options are used.)

A dictionary attack for password cracking.
MITM
spoofed disconnect DoS
CTS flood DoS

22. Place the following actions in the order in which they occur in a shared key authentication process. (Not all options are used.)

The client send a beacon frame to the AP.
Step 2
Step 5
Step 1
Step 3
The client sends a challenge text to the AP.
Step 4

23. Open the PT Activity. Perform the tasks in the activity instructions and then answer the question.

What is the SSID of the connected network and which message is displayed in the browser window?

- SSID: Home-Net
Message: Congratulations! You were able to connect it!
- SSID: Home-Network
Message: Good job!
- SSID: Home-Network
Message: Well done!

- SSID: Home-Net
Message: Congratulations! You did it!