

# HUAWEI

## Exam Questions H12-311

HCNA-WLAN - Wireless Local Area Network



#### NEW QUESTION 1

Which of the following standards is WLAN (Select 2 Answers)?

- A. 802.11a/b/g/n
- B. WPA
- C. WPA2
- D. 802.11i

**Answer:** BC

#### NEW QUESTION 2

Which of the following protocols support the 2.4 GHz band (Select 3 Answers)?

- A. 802.11a
- B. 802.11b
- C. 802.11g
- D. 802.11n

**Answer:** BCD

#### NEW QUESTION 3

Which of the following options is in the 5GHz band supported by China?

- A. 5.15~5.25GHz
- B. 5.25~5.35GHz
- C. 5.725~5.825GHz
- D. 5.725~5.850GHz

**Answer:** D

#### NEW QUESTION 4

What is the name of the first radio communication network based on packet technology?

- A. INTERNET
- B. ARPANet
- C. ALOHNET
- D. NSFnet

**Answer:** C

#### NEW QUESTION 5

Which of the following technologies works at 5 GHz (Select 2 Answers)?

- A. Radar
- B. Bluetooth
- C. Infrared
- D. Digital Satellite

**Answer:** AD

#### NEW QUESTION 6

The basic service set is the basic component of an 802.11 network and consists of a set of workstations that communicate with each other.

- A. True
- B. False

**Answer:** A

#### NEW QUESTION 7

What are the following WLAN standards for transmission rates up to 54 Mbps and above (Select 3 Answers)?

- A. 802.11a
- B. 802.11b
- C. 802.11g
- D. 802.11n

**Answer:** ACD

#### NEW QUESTION 8

What parameters are used in 802.11 frames to reassemble frame fragments?

- A. Frame Control
- B. Duration

- C. Address bit
- D. Fragment number

**Answer:** D

**NEW QUESTION 9**

There are four wireless STAs. Which workstations occupy the channel preferentially according to the following backoff time parameters?

- A. 5
- B. 7
- C. 4
- D. 6

**Answer:** C

**NEW QUESTION 10**

Which of the following standards organizations is proposed by the CAPWAP protocol?

- A. FCC
- B. IETF
- C. CCC
- D. ETSI

**Answer:** B

**NEW QUESTION 10**

Which country or region is ETSI a standard organization?

- A. China
- B. USA
- C. Japan
- D. Europe

**Answer:** B

**NEW QUESTION 12**

On a WDS network, a root AP can connect to multiple leaf APs, but a leaf AP can connect to only one root AP.

- A. True
- B. False

**Answer:** A

**NEW QUESTION 16**

The Barker code is an 11-bit sequence (for example, 10110111000), which has advantages in wireless transmission, which can effectively reduce interference, but reduces efficiency.

- A. True
- B. False

**Answer:** A

**NEW QUESTION 18**

The 802.11n standard uses dual-band (2.4 GHz and 5 GHz), the theoretical transmission rate can reach up to 300 Mbps, and the actual test rate can reach more than 100 Mbps.

- A. True
- B. False

**Answer:** B

**NEW QUESTION 21**

Spread-spectrum technology is the basis for transmitting wireless data using the ISM band.

- A. True
- B. False

**Answer:** A

**NEW QUESTION 24**

Because 802.11a supports the same maximum rate as 802.11g supports, the 802.11a protocol is backward compatible with the 802.11g protocol.

- A. True
- B. False

**Answer:** B

**NEW QUESTION 28**

In the 802.11 frame, when the network uses the WDS model for signal transmission, what are the values of To DS and From DS, respectively?

- A. 0,0
- B. 0,1
- C. 1,0
- D. 1,1

**Answer:** A

**NEW QUESTION 33**

In the WDS deployment, which types of bridge networking modes are included (Select 3 Answers)?

- A. Point-to-point mode
- B. Point-to-multipoint mode
- C. Relay bridge mode
- D. Multi-point to multi-point mode

**Answer:** ABC

**NEW QUESTION 35**

In an 802.11 frame, the terminal needs to obtain access rights to the wireless medium, and what kind of control message is to be sent?

- A. RTS
- B. CTS
- C. ACK
- D. PS-Poll

**Answer:** A

**NEW QUESTION 36**

How many subcarriers can 802.11a use to transmit data in 20M mode?

- A. 48
- B. 52
- C. 54
- D. 56

**Answer:** A

**NEW QUESTION 37**

Telnet is one of the ways to remotely manage APs. You can configure telnet authentication based on username and password.

- A. True
- B. False

**Answer:** A

**NEW QUESTION 39**

What is the command for the Huawei AC6605 to switch between the wired side and the wireless side?

- A. Ctrl+B
- B. Ctrl+X
- C. Ctrl+Y
- D. Ctrl+Z

**Answer:** B

**NEW QUESTION 41**

Which of the following is the command to restart the AC6605?

- A. <Quidway> reload
- B. <Quidway> reboot
- C. [Quidway]reload
- D. [ Quidway] reboot

**Answer:** B

**NEW QUESTION 43**

If the configuration parameters of the AP radio are changed, the AP must be restarted before the command takes effect.

- A. True

B. False

**Answer:** B

#### NEW QUESTION 45

The following statement about SSID is wrong.

- A. Multiple different SSIDs can be released on one AP
- B. The same SSID can be released on multiple APs.
- C. There is no limit to the number of SSIDs that can be configured on an AP.
- D. The same SSID signal can be released on two sets of antennas of one A

**Answer:** C

#### NEW QUESTION 48

What VLAN is used to establish a CAPWAP tunnel VLAN for the AP and AC?

- A. Management VLAN
- B. Service VLAN
- C. User VLAN
- D. Authentication VLAN

**Answer:** A

#### NEW QUESTION 49

Configure the authentication mode of the AP. What are the authentication modes supported by the AP (Select 3 Answers)?

- A. mac-auth
- B. sn-auth
- C. no-auth
- D. mac-sn-auth

**Answer:** ABC

#### NEW QUESTION 54

The CAPWAP protocol supports both Split Mac and Local Mac modes of operation.

- A. True
- B. False

**Answer:** A

#### NEW QUESTION 56

The following description of the management VLAN is correct.

- A. Mainly responsible for transmitting data when WLAN users access the Internet
- B. PVID VLAN under WLAN ESS interface
- C. Service VLAN under the service set template
- D. Responsible for establishing the CAPWAP tunnel between the AC and the AP.

**Answer:** D

#### NEW QUESTION 59

Each AC device needs to specify the source IP address of the AC to establish a CAPWAP tunnel with the AP. One AC can specify up to two WLAN source IP addresses.

- A. True
- B. False

**Answer:** B

#### NEW QUESTION 62

If not configured, what is the default authentication method supported by the AP?

- A. mac-auth
- B. sn-auth
- C. no-auth
- D. mac-sn-auth

**Answer:** A

#### NEW QUESTION 64

When only one interface of the AC is connected to the aggregation layer switch, the user traffic is directly transmitted through the aggregation switch to the public network.

- A. Side-by-side mode + tunnel forwarding
- B. Side-by-side mode + direct forwarding
- C. Direct connection mode + tunnel forwarding
- D. Direct connection mode + direct forwarding

**Answer:** B

#### NEW QUESTION 68

The naming of the "AP6010DN" is incorrect.

- A. AP in AP6010DN is the specific prefix of the AP of the enterprise network.
- B. AP6010DN "601" represents the standard indoor placement type 1st generation
- C. The "D" in the AP6010DN represents that the AP is a dual-band AP and supports the 2.4GHz and 5GHz bands.
- D. "N" in AP6010DN means AP is an 802.11n A

**Answer:** D

#### NEW QUESTION 70

Wireless users with the same user VLAN and the same SSID can access the Internet, but they can't access each other. What could be the cause of this phenomenon?

- A. The user's gateway device is configured with an ACL to prevent mutual access between users.
- B. The ACL is configured on the AC to prevent mutual access between users.
- C. Port isolation configured on the switch connected to the AP prevents mutual access between users.
- D. User isolation is configured on the wireless service-set to prevent mutual access between user

**Answer:** D

#### NEW QUESTION 74

After a wireless user connects to a wireless signal point, they cannot obtain an IP address. What are the possible reasons (Select 2 Answers)?

- A. The DHCP server is not configured in the VLAN where the user is locate
- B. The dhcp-enable command is not configured on the
- C. wlan-ess virtual interface.
- D. The user-specified authentication password is incorrect.
- E. The MAC address of the user device has been added to the blacklis

**Answer:** AB

#### NEW QUESTION 76

In the term of PoE, what does the AP belong to?

- A. PSE
- B. PD
- C. PI
- D. PSU

**Answer:** A

#### NEW QUESTION 79

The following description of the service VLAN is correct (Select 3 Answers).

- A. Mainly responsible for transmitting data when WLAN users access the Internet.
- B. PVID VLAN under WLAN ESS interface
- C. Service VLAN under the service set template
- D. If data tunneling is used, user data will not be transmitted through the service VLA

**Answer:** ABC

#### NEW QUESTION 84

Which of the following ports can only belong to one VLAN.

- A. access
- B. hybrid
- C. trunk
- D. eth-trunk

**Answer:** A

#### NEW QUESTION 86

In the TKIP encryption mode, the length of the IV vector is bit.

- A. 12
- B. 24
- C. 48

D. 64

**Answer: C**

**NEW QUESTION 89**

CCMP encryption is more secure than TKIP encryption because of its security.

- A. Adopt a longer IV
- B. Added a key distribution mechanism, no longer using a single key
- C. Adopting a more complex encryption algorithm
- D. Added a message integrity check mechanism

**Answer: C**

**NEW QUESTION 91**

The following description of the PSK certification is incorrect.

- A. PSK authentication requires the same pre-shared key to be configured on the wireless client and device side.
- B. WPA and WPA2 support PSK certification
- C. PSK authentication process is similar to the shared key authentication process, so the security is the same.
- D. PSK authentication is to verify the legitimacy of the STA side key through 4-way handshake key negotiation.

**Answer: A**

**NEW QUESTION 95**

In the thin AP networking, which of the following authentication methods does not require AC participation during the authentication process.

- A. Shared key authentication
- B. 802.1X authentication
- C. PSK authentication
- D. Portal authentication

**Answer: A**

**NEW QUESTION 97**

The following is a description of TKIP encryption. The error is .A. The length of the IV used in

- A. TKIP encryption is 24bits.
- B. TKIP encryption uses the same encryption algorithm as WEP encryption.
- C. The motivation for developing TKIP encryption is to upgrade the security of legacy WEP hardware.Added the mechanism of key generation, management and delivery in
- D. TKIP encryptio

**Answer: A**

**NEW QUESTION 98**

In the following priority queues, the queue has the highest default priority.

- A. AC-BE
- B. AC-VI
- C. AC-VO
- D. AC-BK

**Answer: C**

**NEW QUESTION 99**

The port number of the control packet of the CAPWAP tunneling protocol is

- A. 1645
- B. 1646
- C. 5246
- D. 5247

**Answer: D**

**NEW QUESTION 100**

The systematic process of AP RF resource management is.

- A. Acquisition -> Decision -> Analysis -> Execution
- B. Analysis -> Acquisition -> Decision -> Execution
- C. Acquisition -> Analysis -> Execution -> Decision
- D. Acquisition -> Analysis -> Decision -> Execution

**Answer: D**

#### NEW QUESTION 104

Regarding the working principle of 5G priority, the following statement is correct.

- A. 5G priority feature is to let the 5G client send data preferentially.
- B. 5G priority is turned on, the network transfer speed of the client supporting only 2.4G will be slower.
- C. 5G priority requires the AP to work normally when it is a dual-band AP.
- D. 5G priority requires all clients to support both 2.4GHz and 5GHz bands

**Answer:** C

#### NEW QUESTION 105

The following is an incorrect way to refer to AP access control (Select 2 Answers).

- A. By default, the access control mode of the AP to the AC is not authenticated.
- B. By configuring the AP in the offline state, authentication is required to automatically access the AP.
- C. The configuration whitelist can be authenticated based on the MAC or authenticated based on the SN.
- D. If the AP access control adopts MAC authentication, the AP outside the MAC authentication list can also be online after being manually confirmed.

**Answer:** AB

#### NEW QUESTION 110

Which of the following 2.4GHz bands are Selective Answers (ABD) (Select 3 Answers).

- A. 6 and 11
- B. 3 and 8
- C. 4 and 8
- D. 4 and 10

**Answer:** ABD

#### NEW QUESTION 115

The cable used in the project cannot theoretically exceed the meter.

- A. 50
- B. 80
- C. 100
- D. 150

**Answer:** B

#### NEW QUESTION 120

The AP can provide power and data transmission through the POE switch.

- A. True
- B. False

**Answer:** A

#### NEW QUESTION 122

The 802.11 protocol that defines the quality of service in WLAN is .

- A. 802.11f
- B. 802.11i
- C. 802.11e
- D. 802.11n

**Answer:** C

#### NEW QUESTION 125

The following options are prerequisites for starting the Huawei load balancing function.

- A. AP belongs to the same type
- B. The AP is under the same AC management, and the signals between the APs overlap.
- C. STA can scan APs that are load balanced with each other.
- D. AP's output power setting is consistent

**Answer:** B

#### NEW QUESTION 127

The choice of WLAN coverage antenna, for narrow and long areas, it is recommended to select (), open a short distance area, it is recommended to select ().

- A. omnidirectional antenna; omnidirectional antenna
- B. omnidirectional antenna; directional antenna
- C. directional antenna; omnidirectional antenna
- D. directional antenna; directional antenna



**Answer:** C

**NEW QUESTION 129**

WLAN APs can be powered by (Select 3 Answers).

- A. POE switch
- B. POE adapter
- C. Independent power adapter
- D. RF cable

**Answer:** ABC

**NEW QUESTION 133**

Which of the following are factors that need to be considered for AP capacity planning (Select 3 Answers)

- A. Equipment performance
- B. Number of concurrent users
- C. Bandwidth requirements
- D. Power supply type

**Answer:** ABD

**NEW QUESTION 136**

The indicator used to describe the extent to which the antenna converges on the transmit power is.

- A. Broadband
- B. Power
- C. Gain
- D. Polarity

**Answer:** C

**NEW QUESTION 138**

The antenna obtains the gain by means of .

- A. Using a power amplifier in the antenna system
- B. Making the antenna radiation more concentrated
- C. Use high efficiency antenna feeder
- D. Use low standing wave ratio equipment

**Answer:** B

**NEW QUESTION 140**

What is the coverage of the AP (Select 3 Answers).

- A. AP transmit power
- B. Antenna gain
- C. AP size
- D. Transmission loss

**Answer:** AB.D

**NEW QUESTION 145**

When the two-channel center frequency distance is less than or equal to 25 MHz, there is an overlapping area between the channels, and there may be some interference. Therefore, in order to avoid adjacent channel interference in adjacent area channel planning, the same channel is not allowed.

- A. True
- B. False

**Answer:** B

**NEW QUESTION 149**

For lobe width, the following description is correct (Select 3 Answers).

- A. In the main lobe range, the power density decreases by half (3dB) relative to the maximum radiation direction.
- B. The narrower the lobes, the better the directionality, the farther the radiation distance, the stronger the anti-interference ability
- C. The pattern usually has two or more petals
- D. The terminal can receive the signal only within the half power angle coverage.

**Answer:** ABC

**NEW QUESTION 150**

For outdoor long-distance point-to-point backhaul, the antenna of should be selected.

- A. High gain, small lobe width
- B. High gain, large lobe width
- C. Omnidirectional
- D. Low gain, large lobe width

**Answer:** A

**NEW QUESTION 152**

The equipment manufacturer can usually be judged according to the following.

- A. SSID
- B. MAC address
- C. Encryption type
- D. Channel

**Answer:** B

**NEW QUESTION 157**

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