

## **Cisco 642-747 Exam**

**Volume: 164 Questions**

Question No : 1

Which two statements describe WGB access to a Cisco Unified Wireless Network that is running code 7.0.116.0? (Choose two.)

- A. Only Cisco WGB or universal WGB is supported.
- B. WGBs other than Cisco are supported with Layer 3 roaming.
- C. WGBs other than Cisco are supported with Layer 2 roaming.
- D. Cisco WGB devices are supported with VLAN tagging.
- E. Cisco WGB devices are supported only with a single native VLAN.

Answer: C,D

Question No : 2

Which performance impact occurs when configuring Cisco WCS v7.0 for Cisco 3300 Series MSE tracking of devices?

- A. greater effect on Cisco MSE CPU overhead and network traffic levels but not on Cisco MSE disk utilization and Cisco WCS CPU overhead
- B. greater effect on Cisco WCS CPU overhead and Cisco MSE disk utilization but not on network traffic levels and Cisco MSE CPU overhead
- C. greater effect on Cisco WCS CPU overhead and Cisco MSE CPU overhead but not on Cisco MSE disk utilization and network traffic levels
- D. greater effect on Cisco MSE disk utilization and network traffic levels but not on Cisco WCS CPU overhead and Cisco MSE CPU overhead

Answer: A

Question No : 3

Which three statements correctly describe Band Select on a Cisco WLC v7.0.116.0? (Choose three.)

- A. It is beneficial for data wireless clients.

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- B. It is beneficial for roaming-voice wireless clients.
- C. It is beneficial for nomadic-video wireless clients.
- D. It is beneficial for single-radio wireless clients.
- E. It is beneficial for dual-radio wireless clients.

Answer: A,C,E

Question No : 4

Which two issues may need to be considered when using DAS to support location-tracking services? (Choose two.)

- A. Third-party antennas may reduce RF cell size but provide location accuracy.
- B. Additional monitor-mode APs may be necessary to obtain desired location accuracy.
- C. Wi-Fi RF channel selection is critical when using DAS if multiple wireless services are supported in the same antenna group.
- D. Multiple connections are required into a common DAS for 802.11n support.
- E. Linear DAS deployment can reduce your location accuracy.

Answer: B,E

Question No : 5

Authentication timeout values can sometimes require changing if they are too aggressive for wireless clients. What is the default EAP timeout value in a Cisco WLC v7.0?

- A. 5 seconds
- B. 10 seconds
- C. 20 seconds
- D. 30 seconds
- E. 60 seconds

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Answer: D

Question No : 6

Access points not assigned to an MSE are receiving out of sync alerts. Where can this feature be disabled?

- A. Mobility Service Background Tasks
- B. Mobility Service Event Groups
- C. Mobility Service Network Designs
- D. Mobility Service Maintenance

Answer: A

Question No : 7

An engineer is having issues getting an AP to join the WLC at a remote office and suspects it may be a regulatory domain issue. What debug command can be used to verify this issue?

- A. debug capwap events enable
- B. debug aaa all enable
- C. debug dot11 mobile enable
- D. debug pem events enable
- E. debug dot11 mgmt msg

Answer: A

Question No : 8

Cisco WCS v7.0 using a Cisco 3300 Series MSE can map and track wireless clients but is unable to track RSSI-based RFID tags. What is the most likely cause of this problem?

- A. Tags are multicasting and not associating.
- B. Tags are not compatible with Cisco Compatible Extensions.

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- C. The Cisco WLC RFID timeout needs a configuration change.
- D. The Cisco WLC RFID tracking needs to be enabled.
- E. License is not installed on Cisco MSE.
- F. NMSP is incorrectly configured between Cisco WCS and Cisco MSE.

Answer: B

Question No : 9

What is the optimal distance between APs for location services?

- A. 20 to 40 feet
- B. 50 to 70 feet
- C. 30 to 50 feet
- D. 60 to 80 feet
- E. 70 to 90 feet

Answer: B

Question No : 10

You have a customer interested in adding RFID tags to track the movement of containers of work in process in their manufacturing facility. Which type of RFID tags and which Wi-Fi band are most appropriate using their existing Cisco Unified Wireless Network based on v7.0? (Choose two.)

- A. passive RFID tags
- B. semipassive RFID tags
- C. active RFID tags
- D. 900 MHz
- E. 2.4 GHz
- F. 5 GHz

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Answer: C,E

Question No : 11

Refer to the exhibit.

<b>Monitor</b>	<b>Mobility Statistics</b>	<b>Anchor Request Sent</b>	0
<b>Summary</b>		<b>Anchor Deny Received</b>	0
▶ <b>Access Points</b>	<b>Global Mobility Statistics</b>	<b>Anchor Grant Received</b>	0
▼ <b>Statistics</b>	Rx Errors	2	
Controller	Tx Errors	0	
Ports	Responses Retransmitted	0	
RADIUS Servers	Handoff Requests Received	264	
<u>Mobility Statistics</u>	Handoff End Requests Received	0	
▶ <b>CDP</b>	State Transitions Disallowed	0	
▶ <b>Rogues</b>	Resource Unavailable	0	
<b>Clients</b>	<b>Mobility Initiator Statistics</b>	<b>Handoff Requests Ignored</b>	62
<b>Multicast</b>	Handoff Requests Sent	20	
	Handoff Replies Received	0	
	Handoff as Local Received	20	
	Handoff as Foreign Received	0	
	Handoff Denys Received	0	
		<b>Mobility Responder Statistics</b>	
		Handoff Requests Dropped	0
		Handoff Requests Dropped	2
		Handoff Requests Denied	0
		Client Handoff as Local	0
		Client Handoff as Foreign	0
		Anchor Requests Received	0
		Anchor Requests Denied	0
		Anchor Requests Granted	0
		Anchor Transferred	0

What does the count of 20 for Handoff Requests Sent represent in the Mobility Statistics output?

- A. the number of handoff replies that have been received in response to the requests sent
- B. the total number of handoff requests received, ignored, or responses sent
- C. the number of handoffs in which the entire client session has been transferred
- D. the number of clients that have been associated to the controller and have been announced to the mobility group

Answer: D

Question No : 12

Which problem develops when antennas are located too close to or too high from the device that is being tracked for location services?

- A. There is an inconsistent rate of RSSI change per unit of distance.

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- B. There is an inconsistent rate of SNR change per unit of distance.
- C. SNR becomes too great.
- D. PER becomes too great.
- E. RSSI becomes too low.

Answer: A

Question No : 13

What is the list of Cisco 3300 Series MSE v7.0 network location service elements that can be individually enabled or disabled for device tracking and quantity limitation?

- A. Clients and Tags only
- B. Clients, Rogue APs, Interferers, and Tags only
- C. Clients, Rogue APs, Rogue Clients, Interferers, and Tags only
- D. Wired Clients, Wireless Clients, Rogue APs, Rogue Clients, Interferers, and Tags only
- E. Wired Clients, Wireless Clients, Rogue APs, Rogue Clients, Interferers, Active Tags, and Choke Point Tags

Answer: D

Question No : 14

Which access points can be deployed with wireless mesh using version 7.0.116.0 software?

- A. outdoor Cisco 1500 Series APs only
- B. outdoor and indoor APs that are not capable of 802.11n or CleanAir
- C. outdoor and indoor APs that are capable of 802.11n but not CleanAir
- D. outdoor and indoor APs that are capable of 802.11n and CleanAir

Answer: D

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Question No : 15

Which option should be the RSSI (dBm) cell edge for a site survey for a wireless network of data, voice, and location services?

- A. -65
- B. -67
- C. -72
- D. -75
- E. -80

Answer: B

Question No : 16

If the wired infrastructure network latency becomes an issue, which adjustments can be made for collection of location information using Cisco WCS v7.0?

- A. Adjust SNMP timers on Cisco WCS.
- B. Adjust SNMP timers on the Cisco 3300 Series MSE.
- C. Adjust SNMP timers on Cisco WLC.
- D. Adjust LOCP timers on Cisco WLC.
- E. Adjust LOCP timers on Cisco MSE.
- F. Adjust NMSP timers on Cisco WLC.
- G. Adjust NMSP timers on Cisco MSE.

Answer: F

Question No : 17

A pair of WLCs have been configured in a mobility group. The WLC reports that the control path is up, but the data path remains down. What two settings should the engineer check to remedy the issue?

- A. UDP ports 16666 and 16667 are open/allowed between the two controllers.

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- B. UDP port 97 is open/allowed between the two controllers.
- C. The virtual interface IP is the same on both controllers.
- D. The service port IP is the same on both controllers.
- E. The controllers do not have the same RF network name
- F. The controllers have the same location name

Answer: A

Question No : 18

A network engineer needs to bridge a wired IP surveillance camera in the parking lot through a Mesh AP. What mode would the AP the camera is connected to be operating in?

- A. RAP
- B. MAP
- C. Local
- D. FlexConnect

Answer: B

Question No : 19

A wireless client is having difficulty associating. What is the most likely cause, given the output of the following debug?

```
DOT1X-1-MAX_EAPOL_KEY_RETRANS_FOR_MOBILE: MAX EAPOL-Key M1  
retransmissions reached for mobile xx:xx:xx:xx:xx
```

- A. Cisco WLC is not requesting authentication.
- B. Cisco WLC has no RADIUS entry to direct authentication.
- C. Cisco WLC is timing out waiting for authentication.
- D. The Cisco WLC authentication type is incompatible with the client.

Answer: C



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Question No : 20

Which two options describe the ability to schedule AP power status? (Choose two.)

- A. switch management configuration of respective switch port PoE status connected to AP
- B. Cisco WLC v7.0 configuration for time of day for combined AP radio status
- C. Cisco WLC v7.0 configuration for time of day for individual AP radio status
- D. Cisco WCS v7.0 configuration for time of day for combined AP radio status
- E. Cisco WCS v7.0 configuration for time of day for individual AP radio status

Answer: A,D

Question No : 21

The primary Cisco WLC v7.0 has rebooted to a newer version of software, causing the APs to associate to the secondary controller or controllers. Given the default configuration parameters, what happens when the primary Cisco WLC is back in service?

- A. APs remain on the existing controller.
- B. APs remain on the existing controller until the APs are loaded with newer software, and then will return to the primary controller.
- C. APs return to the prior controller on a first-come, first-serve basis.
- D. APs return to the prior controller based on AP Failover Priority Level 1 first, followed by 2 through 4 ascending.
- E. APs return to the prior controller based on AP Failover Priority Level 4 first, followed by 3 through 1 descending.

Answer: C

Question No : 22

Which location-tracking solution requires clock synchronization on receivers only?

- A. cell of origin
- B. modified cell of origin

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- C. AoA
- D. ToD
- E. TDoA
- F. RSS trilateration

Answer: E

Question No : 23

What does "default parent" indicate for a MAP that is displayed in Cisco WLC v7.0?

- A. normal status indicating two or more hops to the final RAP
- B. normal status indicating that the next hop is the final RAP
- C. normal status that is displayed while the MAP is moving toward a preferred next hop
- D. abnormal status indicating mismatching parameters
- E. abnormal status indicating a poor signal

Answer: D

Question No : 24

A MSE is sometimes showing a tag on the wrong floor of a multifloor warehouse. What technology would improve location performance?

- A. Chokepoint transmitters
- B. Spectrum Intelligence
- C. Adaptive wIPS
- D. Additional MSE

Answer: A

Question No : 25