Question 1
What sub-menu option under the Command menu will transfer code and configuration files to the controller?
A. Download File
B. Upload File
C. Download Configuration
D. Upload Configuration
Correct Answer: A
Explanation/Reference:

Question 2
When using DHCP option 43, the discovery option supports vendor specific identifiers in order to obtain what IP address?
A. core router’s gateway
B. closest distribution switch
C. local WLAN controller
D. local Radius Server
Correct Answer: C
Explanation/Reference:

Question 3
What tool can be used to increase accuracy of WCS heat maps?
A. Map Editor
B. Planning Tool
C. CleanAir
D. Cisco Spectrum Expert
Correct Answer: A
Explanation/Reference:

Question 4
What is the most likely cause of this problem?
Refer to the exhibit. An engineer wants to setup a mobility anchor for the Guest WLAN, but does not see the Anchor IP address listed in the drop-down.
A. The mobility anchor is currently unreachable.
B. The mobility anchor must also be included in the mobility group of the WLC.
C. Layer 3 Security must be configured for Web Policy Authentication.
D. The mobility anchor is attached to another WLAN.
E. Layer 3 Security must be configured for Web Policy Passthrough.
Correct Answer: B
Explanation/Reference:

Question 5
What two access methods are enabled by default on a Cisco WLC?
A. HTTP
B. HTTPS
C. Telnet
D. SSH
E. VPN
F. SFTP
Correct Answer: BD
Explanation/Reference:
Question 6
What three categories of parameters are needed?
An engineer is adding a controller to a WCS. What three categories of parameters are needed? (Choose three.)
A. IP parameters
B. SNMP Parameters
C. Mobility Parameters
D. Telnet/SSH Parameters
E. TFTP Parameters
F. RADIUS Parameters
Correct Answer: ABD
Explanation/Reference:

Question 7
What two methods of authentication are available for Local EAP?
A. LDAP and RADIUS
B. Local and RADIUS
C. Local Only
D. LDAP and Local
Correct Answer: D
Explanation/Reference:

Question 8
What technology successfully resists interference by utilizing a wider bandwidth than needed for the transmitting signal?
To implement a more secure means of communication for voice and data, what technology successfully resists interference by utilizing a wider bandwidth than needed for the transmitting signal?
A. Spread Spectrum
B. Microwave
C. Extended U-NII2
D. ISM Bands
Correct Answer: A
Explanation/Reference:

Question 9
What three pieces of information must be collected for an active survey to assess the outcome best suited for the facility?
An engineer is gathering information for a wireless survey of a hospital. What three pieces of information must be collected for an active survey to assess the outcome best suited for the facility? (Choose three.)
A. presence of microwave ovens
B. number of patients that are at the facility
C. utilization of Location Services or voice applications
D. floor plans of adjacent facilities
E. use of wireless for secure records
F. spectrum analysis to locate all the computer work stations
G. existing Network Switch types and model numbers
H. type of devices present on the new wireless network
Correct Answer: ACH
Explanation/Reference:

Question 10
What three configuration options can be executed by navigating to the WCS Administration > AAA menu?
What three configuration options can be executed by navigating to the WCS Administration > AAA menu? (Choose three.)
A. Add a Lobby Ambassador guest
B. Add a LDAP server
C. Add an administrative user
D. Add a MAC address list filter
E. Add a RADIUS server
F. Add a TACACS+ server
Correct Answer: CEF
Explanation/Reference:

Question 11
How many types of control frames are only used in PCF mode?
How many types of control frames are only used in PCF mode?
A. 0
B. 1
C. 2
D. 3
E. 4
F. 5
Correct Answer: D
Explanation/Reference:
Question 12
What two configurations are needed to fix this?
A customer mounted three new APs in a small business. After configuring the IP address, users still could not access the web through the new access points. What two configurations are needed to fix this? (Choose two.)
A. Security parameters
B. Gateway address
C. Service Set ID
D. Antenna option
E. EAP Authentication
F. Unique AP Name
Correct Answer: BC
Explanation/Reference:

Question 13
What security method should be implemented?
To mitigate DoS attacks on a network, what security method should be implemented?
A. WEP
B. 802.1x
C. Non-broadcast SSID
D. Client MFP
Correct Answer: D
Explanation/Reference:

Question 14
What two interferers would likely be identified?
An 802.11g network is experiencing intermittent signal degradation and Spectrum Analyzer is being used to try and locate the problem. What two interferers would likely be identified? (Choose two.)
A. multiple cell phones
B. microwave oven
C. FM Radio
D. cordless phone
E. document scanner
Correct Answer: BD
Explanation/Reference:

Question 15
What other antenna will produce a similar pattern?
An engineer is seeing a pattern closest to that of an Isotropic Radiator. What other antenna will produce a similar pattern?
A. 5 dBi patch
B. 13.5 dBi Yagi
C. 2.2 dBi omni
D. 21 dBi parabolic
Correct Answer: C
Explanation/Reference:

Question 16
What encryption standards describe WPA and WPA2?
What encryption standards describe WPA and WPA2?
A. WPA mandates AES with TKIP optional, WPA2 mandates TKIP
B. WPA mandates TKIP with AES optional, WPA2 mandates AES
C. WPA mandates CKIP, WPA2 mandates AES
D. WPA mandates CKIP with AES optional, WPA2 mandates AES
Correct Answer: B
Explanation/Reference:

Question 17
What two capabilities would be present on a wireless client device that supports CCXv3?
What two capabilities would be present on a wireless client device that supports CCXv3? (Choose two.)
A. WPA2
B. 802.1x
C. PEAP-MSCHAP
D. NAC
E. MFP
F. EAP-TLS
Correct Answer: AB
Explanation/Reference:

Question 18
What three characteristics are components of mobility anchoring?
What three characteristics are components of mobility anchoring? (Choose three.)
A. enabled as a global setting
B. enabled on a per WLAN basis
C. restricts clients to a specific subnet
D. client traffic is tunneled to predefined WLC(s)
E. only one mobility anchor is allowed per WLAN
F. acts as master controller for a mobility group

Correct Answer: BCD
Explanation/Reference:

Question 19
What three components must be the same on a controller and the RADIUS server when adding a RADIUS server to a WLC?
What three components must be the same on a controller and the RADIUS server when adding a RADIUS server to a WLC? (Choose three.)
A. Username
B. Shared Secret
C. Index Priority
D. Port Number
E. IP Address
F. Network Mask

Correct Answer: BDE
Explanation/Reference:

Question 20
Those with LAN connections to the controller would be considered what mode of deployment, while access points deployed across a higher latency connection are deployed in what mode?
A client is deploying lightweight APs. Those with LAN connections to the controller would be considered what mode of deployment, while access points deployed across a higher latency connection are deployed in what mode?
A. HREAP; Bridge
B. Local; Bridge
C. HREAP; Flex Connect
D. Local; Flex Connect

Correct Answer: D
Explanation/Reference:

Question 21
What is a reason for this?
An engineer recently removed a WLC from a WCS, but the APs associated to the WLC are still showing on the WCS. What is a reason for this?
A. The associated APs must be removed manually.
B. The APs must be removed from the WCS map.
C. The hold-down timer must expire before the APs will be removed.
D. The APs must be audited.

Correct Answer: A
Explanation/Reference:

Question 22
What organization is this?
A wireless bridge is being installed near an airport. An organization informs the city council about complying with max power levels that could be used and settings on any 5GHz channels used that might interfere with the airport radar. What organization is this?
A. Institute of Electrical and Electronics Engineers
B. Internet Engineering Task Force
C. Federal Communications Commission
D. Wireless Fidelity Alliance

Correct Answer: C
Explanation/Reference:

Question 23
In what WCS menu would an engineer locate the WCS software version?
In what WCS menu would an engineer locate the WCS software version?
A. Administration > Settings
B. Help > About Cisco WCS
C. Help > Online Help
D. Administration > License Center

Correct Answer: B
Explanation/Reference:

Question 24
What AnyConnect module can be used to provide a detailed scan list of the Wi-Fi environment?
What AnyConnect module can be used to provide a detailed scan list of the Wi-Fi environment?
A. DART
B. Telemetry
C. Web Security
D. NAM
E. Posture

Correct Answer: A
Explanation/Reference:
Question 25
What authentication method requires a certificate on both the client and authentication server?
A. PEAP  
B. EAP-TLS  
C. EAP-FAST  
D. WPA-PSK  
E. WEP  
F. EAP-TTLS

Correct Answer: B
Explanation/Reference:

Question 26
What is the reason for this?
An engineer has been noticing the power settings on several of the office APs change from day to day even since two more APs were installed. After logging into the WLC, the engineer verifies that the power levels on 4 of the 802.11n radios are fluctuating up and down. What is the reason for this?
A. The controller has the APs in H-REAP mode and are on a Layer 2 connection instead of Layer 3.
B. The RRM has revealed a bad survey and is attempting to power down some of the radios to make up for it.
C. The WLC has created temporary coverage holes while stepping through power levels for some of the APs.
D. Several APs have high levels of overlapping coverage in the same area and the WLC is using RRM to correct the cell sizes AP coverage.

Correct Answer: D
Explanation/Reference:

Question 27
What application would meet the requirements?
A company wants to implement wireless in all 20 remote office locations and wants centralized management of these remote sites. What application would meet the requirements?
A. Control And Provisioning of Wireless Access Points  
B. Cisco point to multi-point wireless bridging  
C. Cisco autonomous access points in FlexConnect mode  
D. Split MAC architecture utilizing LWAPP and WLC

Correct Answer: D
Explanation/Reference:

Question 28
What is a function of the service port on a WLC?
What is a function of the service port on a WLC?
A. controls mobility manager communications on all physical ports  
B. controls out-of-band management for system recovery and maintenance  
C. controls communication with Cisco Aps  
D. controls communications for all physical ports

Correct Answer: B
Explanation/Reference:

Question 29
Where would an engineer verify the total number of excluded clients in the last day?
An engineer is troubleshooting why wireless clients have not been able to connect to the network. Where would an engineer verify the total number of excluded clients in the last day?
A. Security > Miscellaneous  
B. Security > Rogues  
C. Alarms  
D. Events  
E. Clients > Troubleshoot  
F. Access Points

Correct Answer: A
Explanation/Reference:

Question 30
What is the longest log capture they will be able to take?
An engineer is using WCS’ client troubleshooting tool to investigate issues with a client device. What is the longest log capture they will be able to take?
A. 2 minutes  
B. 5 minutes  
C. 10 minutes  
D. 30 minutes

Correct Answer: C
Explanation/Reference:

Question 31
What are three characteristics of WCS?
What are three characteristics of WCS? (Choose three.)  
A. based on a single server licensing system
B. used for wireless planning  
C. used for real-time tracking of multiple clients  
D. used for wireless management  
E. used for RF fingerprinting  
F. based on a per server licensing system  

Correct Answer: ABD  
Explanation/Reference:

**Question 32**  
What are three functions of RRM?  
What are three functions of RRM? (Choose three.)  
A. dynamic channel assignment  
B. detection and avoidance of interference  
C. dynamic antenna polarization  
D. dynamic transmit power control  
E. dynamic controller selection  
F. detection and avoidance of AP client load  

Correct Answer: ABD  
Explanation/Reference:

**Question 33**  
What two AP configurations will show RF prediction on maps in WCS?  
What two AP configurations will show RF prediction on maps in WCS? (Choose two.)  
A. Lightweight APs with internal antennas  
B. Lightweight APs with external Cisco antennas  
C. Lightweight APs with external 3rd Party antennas  
D. Autonomous APs with internal antennas  
E. Autonomous APs with external Cisco antennas  
F. Autonomous APs with external 3rd Party antennas  

Correct Answer: AB  
Explanation/Reference:

**Question 34**  
What two design requirements must be met?  
Refer to the exhibit. Based on the diagram, what two design requirements must be met? (Choose two.)  
A. WGB is Autonomous  
B. WGB is Universal  
C. WGB can be Autonomous or Universal  
D. Upstream AP is Aironet  
E. Upstream AP is not Aironet  
F. Upstream AP can be any make/model  

Correct Answer: AD  
Explanation/Reference:

**Question 35**  
How should the devices be configured?  
An enterprise needs their iPhones to connect to the EAP-TLS network. How should the devices be configured?  
A. push profile and certificate through Configuration Utility  
B. configure directly through Settings application  
C. email certificate to device then configure through Settings application  
D. download certificate from web page then configure through Settings application  
E. push profile and certificate through iTunes  

Correct Answer: A  
Explanation/Reference:

**Question 36**  
What should the transmit power be set to?
An installation uses a 21dBi parabolic dish. It is connected to the 802.11n radio via low loss antenna coax rated at 4dB loss/100 feet. After testing, it has been determined that 2mW of power will be lost in the cable. An EIRP producing 200mW is desired. What should the transmit power be set to?

A. 8mW  
B. 3dBm  
C. 3.16mW  
D. 5mW

Correct Answer: C
Explanation/Reference:

**Question 37**
How does the traffic of each SSID reach the 802.3 network?
When using multiple SSIDs on a lightweight AP, how does the traffic of each SSID reach the 802.3 network?
A. provide routing between them at the core so that the SSIDs can reach the internet  
B. configure 802.11q trunking on the Ethernet switch port that is connected to the AP  
C. configure ACLs at the switch port that will allow all desired SSIDs to pass traffic  
D. configure the SSIDs on the WLC and it will regulate the traffic based on traffic type

Correct Answer: B
Explanation/Reference:

**Question 38**
What 802.1x role is responsible for moving a port to the authorized state?

A. Supplicant  
B. Authenticator  
C. Authentication Server  
D. RADIUS Server

Correct Answer: B
Explanation/Reference:

**Question 39**
What WCS report displays hardware type, software distribution, and CDP information?

A. Device > AP Profile Status  
B. Device > AP Summary  
C. Network Summary > Executive Summary  
D. Device > Inventory  
E. Network Summary > 802.11n Summary

Correct Answer: D
Explanation/Reference:

**Question 40**
What three components are required to configure Mobility Group Members between Wireless LAN Controllers?

A. Controller Management IP Address  
B. Controller Virtual IP Address  
C. Controller Multicast IP Address  
D. Controller MAC Address  
E. Controller Mobility Group Name  
F. Controller AP Management IP Address  
G. Controller RF Group Name

Correct Answer: ADE
Explanation/Reference:

**Question 41**
What three transfer methods are available?

A network engineer is upgrading the WLC image through the GUI for maintenance. What three transfer methods are available? (Choose three.)

A. FTP  
B. SNMP  
C. TFTP  
D. SFTP  
E. HTTP  
F. SMB  
G. HTTPS  
H. SCP

Correct Answer: ACD
Explanation/Reference:

**Question 42**
What configuration should be the same on all controllers within the mobility group?

Wireless clients are experiencing loss of connectivity while roaming between controllers. To fix this, what configuration should be the same on all controllers within the mobility group?
A. management interface IP address  
B. IP address of the virtual interface
C. AP Manager interface IP address
D. IP address of the Service Port

Correct Answer: B
Explanation/Reference:

Question 43
What protocol overcomes the weaknesses of LEAP?
A. EAP-TLS
B. PEAP
C. EAP-FAST
D. EAP-TTLS

Correct Answer: C
Explanation/Reference:

Question 44
What Monitor submenu would provide the table shown?
A. Clients
B. Access Points
C. Controllers
D. Security
E. Alarms

Correct Answer: A
Explanation/Reference:

Question 45
What device(s) would the engineer specify the EAP type on?
An engineer wants to setup WPA2 Enterprise using EAP-TLS and a remote RADIUS server. What device(s) would the engineer specify the EAP type on?
A. the supplicant and authentication server
B. the supplicant and authenticator
C. the authenticator and authentication server
D. the supplicant only
E. the authentication server only

Correct Answer: A
Explanation/Reference:

Question 46
Which type of management tasks can be completed on a Cisco WLC remotely from a wireless client?
Which type of management tasks can be completed on a Cisco WLC remotely from a wireless client?
A. All management and configuration tasks can be performed from a wireless client except for using debug commands.
B. In the default configuration, no management or configuration is possible through the GUI or CLI on the Cisco WLC.
C. The default configuration of the Cisco WLC allows only CLI access and then only the use of show commands, so no configuration is possible.
D. All management and configuration tasks, except uploads from and downloads to the Cisco WLC, are permitted.

Correct Answer: B
Explanation/Reference:

Question 47
What is the most likely cause of this problem?
Old 2.4-GHz wireless laptops are unable to connect. What is the most likely cause of this problem?

A. WLAN > General properties are incorrectly configured.
B. WLAN > QoS properties are incorrectly configured.
C. WLAN > Security properties are incorrectly configured.
D. WLAN > Advanced properties are incorrectly configured.
E. Wireless > AP > 802.11 b/g/n AP is incorrectly configured.

F. Wireless > AP > 802.11 b/g/n > Network is incorrectly configured.
Correct Answer: F
Explanation/Reference:

Question 48
How is a remote management HTTPS access connection secured?
When using a Cisco WLC version 7.0 with a default configuration, how is a remote management HTTPS access connection secured?
A. The Cisco WLC uses a pre-shared key to authenticate the user, which limits the number of potential users that can access the controller.
B. The Cisco WLC generates its own local web administration SSL certificate and automatically applies it to the GUI.
C. The Cisco WLC uses a CA certificate for SSL access.
D. The Cisco WLC uses HTTPS to secure the HTTP session via a preconfigured password that generates a certificate for each session.
Correct Answer: B
Explanation/Reference:

Question 49
Which option best describes the limitation of a client that is attempting to manage a WLC while using the client wireless adapter connection to the wireless infrastructure?
Which option best describes the limitation of a client that is attempting to manage a WLC while using the client wireless adapter connection to the wireless infrastructure?
A. Controllers must be managed using only secure protocols (that is, SSH and HTTPS), not nonsecure protocols (that is, HTTP and Telnet).
B. Read-write access is not available; only read-only access is supported.
C. Uploads and downloads from the controller are not allowed.
D. Wireless clients can manage other controllers, but not the same controller and the AP to which the client is associated.
Correct Answer: C
Explanation/Reference:

Question 50
What switch configuration will correct this problem?
The AP is unable to join the WLC. What switch configuration will correct this problem?

A. interface vlan1
   ip helper-address 10.10.10.10

B. interface vlan20
   ip helper-address 10.10.10.10

C. ip dhcp pool vlan1
   option 43 ascii '10.10.10.10'

D. ip dhcp pool vlan20
   option 43 ascii '10.10.10.10'

E. ip dhcp pool vlan1
   option 43 hex f1040a0a0a0a

F. ip dhcp pool vlan20
   option 43 hex f1040a0a0a0a

Correct Answer: F

Question 51
Which change can correct inband access to the WLC?
Which change can correct inband access to the WLC?
A. change the switch FastEthernet0/1 duplex setting
B. change the switch FastEthernet0/1 speed setting
C. enable the switch FastEthernet0/1 spanning-tree port-fast trunk
D. change the switch FastEthernet0/1 trunk encapsulation
E. change the WLC management interface to use DHCP
F. change the WLC management interface VLAN
G. change the WLC configuration of NTP
H. browse to WLC via http://10.10.10.10

Correct Answer: D

Which two factors must be considered when evaluating an RF interferer for severity?
A. distance from the AP
B. dBm
C. the type of security crack being used
D. duty cycle
E. number of interfering IP stations in the cell
F. duplicate SSID

Correct Answer: BD

Which two statements about the Cisco WLC and AP code upgrade when 7.0 is running are true?
A. The AP can download and run new code only after a Cisco WLC reboot causes the AP discovery and join.
B. The AP can download new code before the Cisco WLC reboot, but only if the AP is configured the CLI via SSH.
C. The AP can download new code before Cisco WLC reboot if it is configuring the Cisco WLC directly using the GUI via HTTP or HTTPS.
D. The Cisco WLC defaults to booting newer code, but it can boot older backup code only from the CLI configuration.
E. The Cisco WLC can boot either primary or backup code configured from the GUI.
F. The Cisco WLC can download only a single code at a time for reboot.

Correct Answer: CE

Which description best describes upfade in a multipath environment?
A. In this situation, multiple signal paths are not sent at exactly the same time. The receiver receives a positive crest on the primary signal and a negative crest on the secondary signal.
B. In this situation, the multiple signal paths are distorted and difficult to understand.
C. In this situation, the multiple signal paths are weaker than they should be because the signals are out of phase with each other.
D. In this situation, the signal is stronger than it should be because multiple signal paths are received twice at exactly the same time, which results in the multiple signals being in-phase.

Correct Answer: D

Which three WLC debug commands are appropriate to troubleshoot a wireless client that is associated to an AP?

Correct Answer: CE

Which three WLC debug commands are appropriate to troubleshoot a wireless client that is associated to an AP? (Choose three.)
A. debug capwap
B. debug mac addr
C. debug dot11
D. debug dhcp
E. debug ap
F. debug dtls

Correct Answer: BCD
Explanation/Reference:

Question 56
Which log levels are captured by the Syslog server?
Refer to the exhibit.

With the current Cisco WLC version 7.0 syslog level settings set the way they are, which log levels are captured by the Syslog server?
A. syslog level errors only
B. all syslog levels
C. only the syslog severity level number of error and greater
D. only the syslog severity level number of error and less

Correct Answer: D
Explanation/Reference:

Question 57
Which single tool helps to troubleshoot client-related issues in a WLAN?

A. The show and debug commands on the controller.
B. The show commands on the AP.
C. Client templates on the Cisco WCS.
D. Client troubleshooting on the Cisco WCS.

Correct Answer: D
Explanation/Reference:

Question 58
DRAG DROP (Topic 6)
DRAG DROP (Topic 6)
**Question 59**

What APTx Power Level Assignment would be required to increase power by 3 dBm on 2.4GHz radio?
What APTx Power Level Assignment would be required to increase power by 3 dBm on 2.4GHz radio?

A. 1  
B. 2  
C. 3  
D. 4  
E. 5  
F. 6  
G. 7  
H. 8  

Correct Answer: D  
Explanation/Reference:

**Question 60**
Which three actions are necessary to allow the AP to connect to a controller?
You are on the phone working with a colleague that is console connected to a lightweight AP that has lost its configuration. Which three actions are necessary to allow the AP to connect to a controller? (Choose three.)
A. Configure the AP IP address.  
B. Configure the controller name.  
C. Configure the controller IP address.  
D. Configure the AP hostname.
E. Configure the AP IP default-gateway.
F. Configure the AP username and password.

Correct Answer: ACE

Explanation/Reference:

Question 61
What is causing this issue?
In setting up the wireless network, it is desired that the DHCP server that is configured in WLC1 provides IP addressing to the WLAN. When devices attempt to join the network, they fail to receive an IP address in the range provided by the DHCP server in WLC1, but they do receive an IP address from the DHCP server in SW1. What is causing this issue?

A. The external DHCP server in SW1 will always be the preferred DHCP server and WLC1 will always be the secondary DHCP server in the WLAN.
B. The DHCP server address for SW1 needs to be removed from the DHCP server configuration in WLC1.
C. The primary DHCP server address in WLC1 is incorrect.
D. The primary DHCP server configured in WLC1 is not enabled.

Correct Answer: D

Explanation/Reference:

Question 62

Through which two methods can a wireless client receive an IP address when associating to the WLAN?
All equipment is operational. Through which two methods can a wireless client receive an IP address when associating to the WLAN? (Choose two.)

A. The clients can receive an IP address from SW1.
B. The clients can receive an IP address from WLC1.
C. The clients will not receive an IP address from either DHCP server because of overlapping address ranges.
D. The clients can receive an IP address in a round-robin manner from either SW1 or WLC1.
E. The clients can use a static IP address.

Correct Answer: BE

Explanation/Reference:

Question 63
Which command path correctly describes how to access and troubleshoot clients with Cisco WCS version 7.0?
A. Tools > Clients > select displayed client’s MAC address
B. Tools > Clients > enter client’s MAC address
C. Monitor > Clients > click displayed client’s MAC address
D. Monitor > Clients > enter client’s MAC address
Correct Answer: C
Explanation/Reference:

Question 64
What does the log indicate?
A network engineer is troubleshooting a LAP that is unable to join the controller and receives the message below:
LWAPP_CLIENT_ERROR_DEBUG. No more AP manager IP addresses remain
What does the log indicate?
A. Two or more LAPs have the same IP address.
B. An AP manager has the same IP address as another AP manager.
C. A LAP has the same IP address as the AP manager.
D. Two or more controllers have the same IP address.
Correct Answer: C
Explanation/Reference:

Question 65
Which option lists the key features of Cisco Compatible Extensions v5?
A. Roaming and real-time diagnostics, MFP, a diagnostic channel that allows troubleshooting of the client, client reporting, optional location service, and expedited bandwidth
B. AP assisted roam, Cisco Centralized Key Management, radio measurements, and transmit power control
C. CAC, UPSD, voice metrics, MBSSIDs, location, link tests, and NAC
D. WME, proxy ARP, EAP-FAST, and WPA2, and single sign-on
E. LEAP, WPA, 802.1x and VLANs per AP, TKIP, and WiFi
Correct Answer: A
Explanation/Reference:

Question 66
Which CLI command is used on a Cisco WLC to troubleshoot mobility, rogue detection, and load-balancing events?
A. debug dot11
B. debug capwap all
C. show dot11 details
D. show capwap details
Correct Answer: A
Explanation/Reference:

Question 67
Which portion of a WLAN deployment can WLC message logs help to troubleshoot?
A. RF issues
B. encryption issues between APs and clients
C. configuration verification issues
D. infrastructure and client issues
E. AP placement issues
Correct Answer: D
Explanation/Reference:

Question 68
Which two actions would you use to begin to troubleshoot an access point that fails to join a wireless LAN controller successfully?
A. SSH to the AP.
B. SSH to the Cisco WCS.
C. SSH to the Cisco WLC.
D. Issue the Cisco WLC command debug capwap events enable
E. Issue the Cisco WLC command show capwap events
Correct Answer: CD
Explanation/Reference:

Question 69
Which three minimum parameters must you configure?
You have a lightweight AP that has been moved to a new subnet and has become stranded because DNS and DHCP servers are unavailable. The AP cannot connect to the controller.
When connected to the console port, which three minimum parameters must you configure? (Choose three.)
A. AP IP address
B. controller name
C. AP hostname
D. default gateway IP address
E. controller IP address
F. username and password

Correct Answer: ADE
Explanation/Reference:

**Question 70**
Which type of packet is tested?
When using the CLI command `eping`, configured for auto-anchor mobility wireless guest access, which type of packet is tested?
- A. data packets
- B. mobility unencrypted packets
- C. mobility encrypted packets
- D. SNMP control packets
- E. NTP control packets

Correct Answer: A
Explanation/Reference:

**Question 71**
Which network address will be assigned?
When a client associates to ExamSSID, which network address will be assigned?
A. The IP address assigned will be based on the AP network assignment of 10.10.10.0.
B. The IP address assigned will be based on the AP network assignment of 172.16.23.0.
C. The IP address will be assigned in a round-robin format based on the 172.16.12.0, 172.16.23.0, 192.168.14.0 address pools.
D. The IP address will be assigned in a round-robin format based on the 172.16.12.0, 192.168.14.0, 192.168.25.0 pools.
E. The IP address will be assigned in a round-robin format based on the 172.16.12.0, 172.16.23.0, 192.168.14.0, 192.168.25.0 pools.

Correct Answer: D
Explanation/Reference:

Question 72
What is the most likely cause of this problem?
Tablets and other wireless clients are unable to connect at any 802.11 n data rates. What is the most likely cause of this problem?

A. WLAN > General properties are incorrectly configured.
B. WLAN > QoS properties are incorrectly configured.
C. WLAN > Security properties are incorrectly configured.
D. WLAN > Advanced properties are incorrectly configured.
E. Wireless > AP > 802.11 a/n is incorrectly configured.
F. Wireless > 802.11a/n > Network is incorrectly configured.

Correct Answer: C

Question 73
Which four levels of messages will be sent to the logging server?
Which four levels of messages will be sent to the logging server? (Choose four.)

A. alerts
B. critical
C. debugging
D. emergencies
E. errors
F. informational
G. notifications
H. warnings

Correct Answer: ABDE
Explanation/Reference:

**Question 74**
Which options are other examples of a file that can be uploaded from a Cisco 2500 Series WLC?
Configurations are commonly uploaded and downloaded to a WLC.

Which options are other examples of a file that can be uploaded from a Cisco 2500 Series WLC?
A. packet capture
B. crash file
C. code
D. login banner
E. PAC

Correct Answer: B
Explanation/Reference:

**Question 75**
Which statement correctly describes the procedure for a lightweight AP to successfully establish a connection to a controller?

Which statement correctly describes the procedure for a lightweight AP to successfully establish a connection to a controller?
A. The AP authenticates the received Cisco WLC certificate as valid. The AP then sends its certificate to the controller.
B. The AP sends its certificate to the controller. The AP then authenticates the received Cisco WLC certificate as valid.
C. The AP sends its certificate to the RADIUS server. The AP then authenticates the controller certificate as valid.
D. The AP sends its certificate to the RADIUS server. The AP then authenticates the RADIUS certificate as valid.
E. The AP authenticates the received RADIUS server certificate as valid. The AP then sends its certificate to the RADIUS server.
F. The AP authenticates the received RADIUS server certificate as valid. The AP then sends its certificate to the controller.

Correct Answer: B
Explanation/Reference:

**Question 76**
Which two options does this icon represent about the status of the respective AP on a Cisco WCS version 7.0 map?

Refer to the exhibit.

Which two options does this icon represent about the status of the respective AP on a Cisco WCS version 7.0 map? (Choose two.)
A. The 802.11a/n radio is administratively disabled.
B. The 802.11a/n radio has a minor fault.
C. The 802.11a/n radio has a major fault.
D. The 802.11b/g/n radio is administratively disabled.
E. The 802.11b/g/n radio has a minor fault.
F. The 802.11b/g/n radio has a major fault.

Correct Answer: CD
Explanation/Reference:
*Topic 6, Conduct Basic WLAN Maintenance and Troubleshooting*

**Question 77**
DRAG DROP – (Topic 5)
DRAG DROP – (Topic 5)
Correct Answer: A
Explanation/Reference:

**Question 78**
What tab contains access point configuration in the WCS?
- A. Controller > Access Points
- B. Configure > Access Points
- C. General > Configure > Access Points
- D. System > Configure > Access Points

Correct Answer: B
Explanation/Reference:

**Question 79**
Which three severity levels are in the Cisco WCS alarm dashboard? (Choose three.)
- A. Critical
- B. Flash
- C. Major
- D. Minor
- E. Trivial
- F. Urgent

Correct Answer: ACD
Explanation/Reference:

**Question 80**
Which protocol is used for Cisco WCS to communicate with Cisco WLC?
- A. SNMP
- B. CAPWAP
- C. HTTPS
- D. SSH

Correct Answer: A
Explanation/Reference:

**Question 81**
DRAG DROP – (Topic 5)
Question 82
What is Cisco WCS Navigator?
A. a single point of management for multiple Cisco WCS servers
B. a server for storing and reviewing Cisco Spectrum Expert station data
C. a server for storing the location data of wireless clients
D. a GUI for displaying the data of Cisco CleanAir APs, aligned with an uploaded map
E. a single point of management for multiple Cisco WLC systems

Correct Answer: A
Explanation/Reference:

Question 83
What is the meaning of the inverted orange triangle (marked “0”) in the Alarm Summary tab of Cisco WCS? Refer to the exhibit.

A. number of major alarms
B. number of minor alarms
C. number of critical alarms
D. number of system alarms

Correct Answer: A
Explanation/Reference:

Question 84
Which Cisco WCS tool allows you to view current reports, open specific types of reports, create and save new reports, and manage scheduled runs?
A. Reports menu
B. Reports launch page
C. Scheduled Run results
D. saved reports

Correct Answer: B
Explanation/Reference:

Question 85
Which two formats are supported for uploading background graphics to create a network map in Cisco WCS? (Choose two.)
A. PNG
B. JPEG
C. DWG
D. TIFF

Correct Answer: AB
Explanation/Reference:

Question 86
Which address type is used and which SNMP function does the Cisco WCS perform?
When adding a controller to manage through Cisco WCS, which address type is used and which SNMP function does the Cisco WCS perform?
A. The controller is managed through its MAC address and the Cisco WCS acts as a SNMP TRAP authenticator.
B. The IP address of the controller is used and the Cisco WCS acts as a SNMP TRAP receiver.
C. The controller is managed through its MAC address and the Cisco WCS acts as a SNMP agent.
D. The controller connects through its MAC address to the Cisco WCS and the Cisco WCS uses the SNMP to manage the controller for all configured
SNMP parameters.

Correct Answer: B
Explanation/Reference:

Question 87
Which default alarm level is used to display all rogue APs in the Alarm Summary?
The existing Cisco Unified Wireless Controller is running version 7.0 code for both the controllers and the Cisco WCS. A controller has been configured with an appropriate rogue rule condition to report discovered APs to the Cisco WCS.
Which default alarm level is used to display all rogue APs in the Alarm Summary?
A. Critical
B. Flash
C. Urgent
D. Major
E. Minor

Correct Answer: E
Explanation/Reference:

Question 88
What is the maximum number of access points supported on Cisco WCS with an enterprise license?
What is the maximum number of access points supported on Cisco WCS with an enterprise license?
A. 5,000
B. 10,000
C. 50,000
D. 100,000

Correct Answer: C
Explanation/Reference:

Question 89
Which two formats are available for Cisco WCS reports?
Which two formats are available for Cisco WCS reports? (Choose two.)
A. PDF
B. CSV
C. HTML
D. TXT

Correct Answer: AB
Explanation/Reference:

Question 90
Which two statements about the results of the Cisco WCS version 7.0 client troubleshooting tool are true?
Which two statements about the results of the Cisco WCS version 7.0 client troubleshooting tool are true? (Choose two.)
A. Results of Layers 1 – 3 are provided.
B. Results of only Layers 2 and 3 are provided.
C. Results of Layers 4 – 7 are provided.
D. The tabulated results vary depending on the client type.
E. Results are provided in a fixed four-part tabulation.
F. Results are provided in a fixed six-part tabulation.

Correct Answer: AD
Explanation/Reference:

Question 91
Which item was cleared during the reset?
An AP was reset while working on the correct association to a Cisco WCS version 7.0.
Which item was cleared during the reset?
A. static IP address
B. the location ID of the AP
C. WLC primary, secondary, tertiary
D. AP name
E. certificate
F. Nothing was cleared.

Correct Answer: F
Explanation/Reference:

Question 92
Which two issues are causing the problem?
Refer to the exhibit.
A wireless network that consists of Cisco Aironet 1260 APs and Cisco 2100 Series WLC has been correctly configured with Cisco WCS version 7, which is also used for management. The CleanAir Zone of Impact is not visible for the respective Cisco WCS maps.

Which two issues are causing the problem? (Choose two.)

A. software version  
B. AP  
C. Cisco WLC  
D. Cisco MSE  
E. Cisco WCS  
F. Cisco WCS is not enabled.

Correct Answer: BD  
Explanation/Reference:

Question 93  
Which action allows you to view a summary count by alarm types for the displayed total of 11 alarms? Refer to the exhibit.

Which action allows you to view a summary count by alarm types for the displayed total of 11 alarms?  
A. Choose Monitor > Alarms  
B. Click the Security tab  
C. Click a respective number in the Alarm Summary  
D. Click the Alarm Summary blue arrow  
E. Choose Home (house icon) > Alarm Summary  

Correct Answer: D  
Explanation/Reference:

Question 94  
How can the administrator fix this issue?  
The administrator has noticed that the configuration on a controller is different than in Cisco WCS. How can the administrator fix this issue?  
A. The configuration can be copied from the controller to the Cisco WCS or from the WCS to the controller.  
B. The configuration can be copied only from the Cisco WCS to the controller.  
C. The configuration can be copied only from the controller to the Cisco WCS.  
D. The controller must be removed from the Cisco WCS and then added again.  

Correct Answer: A  
Explanation/Reference:

Question 95  
Which two menus do you click to determine the reachability status of a controller from Cisco WCS? Refer to the exhibit.
Which two menus do you click to determine the reachability status of a controller from Cisco WCS? (Choose two.)
A. Monitor
B. Reports
C. Configure
D. Services
E. Administration
F. Tools

Correct Answer: AC
Explanation/Reference:

Question 96
Which two features are available for the client troubleshooting tool when a Cisco Compatible Extensions v5 wireless client gets connected?
When using Cisco WCS version 7.0, which two features are available for the client troubleshooting tool when a Cisco Compatible Extensions v5 wireless client gets connected? (Choose two.)
A. Request CleanAir reports from the client
B. Send text messages to the client
C. Aggregated Cisco ACS authentication client information
D. Request the client to ping the DHCP-supplied IP gateway
E. Display a summary of client event history

Correct Answer: BD
Explanation/Reference:

Question 97
Where can this command be found within the drop-down menu?
A network engineer in the GUI of WCS version 7 wants to add an access point to a map. Where can this command be found within the drop-down menu?
A. Monitor > Maps
B. Reports > Maps
C. Monitor > Network Summary
D. Configure > Maps

Correct Answer: A
Explanation/Reference:

Question 98
What path displays the current maps within the WCS version 7 GUI?
What path displays the current maps within the WCS version 7 GUI?
A. Monitor > Maps
B. Reports > Maps
C. Services > Maps
D. Administration > Maps
E. Configure > Maps
F. Tools > Maps

Correct Answer: A
Explanation/Reference:

Question 99
Which two destinations can Cisco WCS administrators specify for a scheduled report?
Which two destinations can Cisco WCS administrators specify for a scheduled report? (Choose two.)
A. a file on the Cisco WCS
B. a specified email address
C. a specified World Wide Web server
D. a TFTP server

Correct Answer: AB
Explanation/Reference:

**Question 100**
Which two features are available in the Cisco WCS Plus license over the base license?

Which two features are available in the Cisco WCS Plus license over the base license? (Choose two.)
A. ad hoc rogue detection
B. high availability between two Cisco WCS stations
C. mobility service engine management
D. auto discovery and containment or notification of rogue APs
E. client location to the nearest AP

Correct Answer: BC
Explanation/Reference:

**Question 101**
Which menu leads to the Audit Status Report?

Refer to the exhibit.

Cisco WCS version 7.0 has a configuration mismatch with what is actually running in the controller. Which menu leads to the Audit Status Report?
A. Security
B. Monitor
C. Configure
D. Services
E. Administration
F. Tools

Correct Answer: C
Explanation/Reference:

**Question 102**
Which user group has the ability to configure all features of the Cisco WCS except the user accounts and passwords?

Which user group has the ability to configure all features of the Cisco WCS except the user accounts and passwords?
A. Admin
B. SuperUser
C. Root
D. Supervisor

Correct Answer: A
Explanation/Reference:

**Question 103**
Which two statements about the status of the respective AP on a Cisco WCS version 7.0 map does this icon represent? (Choose two.)

Refer to the exhibit.

Which two statements about the status of the respective AP on a Cisco WCS version 7.0 map does this icon represent? (Choose two.)
A. The 802.11a/n radio is administratively disabled.
B. The 802.11a/n radio has a minor fault.
C. The 802.11a/n radio has a major fault.
D. The 802.11b/g/n radio is administratively disabled.
E. The 802.11b/g/n radio has a minor fault.
F. The 802.11b/g/n radio has a major fault.

Correct Answer: BF
**Question 104**
For how many days does Cisco WCS prevent the alarm from reappearing, even if the source of the alarm reoccurs? A Cisco WCS administrator has marked an alarm as acknowledged. For how many days does Cisco WCS prevent the alarm from reappearing, even if the source of the alarm reoccurs?
A. 1  
B. 7  
C. 10  
D. 30  
Correct Answer: B

**Explanation/Reference:**

**Question 105**
Which path do you take to manage the results of a report that had been run on network utilization?  
A. Reports > Report Launch Pad > Device > Utilization  
B. Reports > Report Launch Pad > Scheduled Run Results  
C. Reports > Saved Reports > Scheduled Run Results  
D. Reports > Scheduled Run Results  
Correct Answer: D

**Explanation/Reference:**

**Question 106**
Which report includes this information?  
The administrator needs to create a report that shows all controllers, APs, and Cisco 3300 Series MSEs in the WLAN, including hardware and software information. Which report includes this information?  
A. Device > Inventory  
B. Mesh > Nodes  
C. Network Summary > Executive Summary  
D. Network Summary > 802.11 Summary  
Correct Answer: A

**Explanation/Reference:**

**Question 107**
Which menu leads to the correct location to make that adjustment?  
Refer to the exhibit.  
If Cisco WCS version 7.0 needs to have APs added, relocated, or removed on a respective map, which menu leads to the correct location to make that adjustment?  
A. Security  
B. Monitor  
C. Configure  
D. Services  
E. Administration  
F. Tools  
Correct Answer: B

**Explanation/Reference:**

**Question 108**
Which GUI item do you click to configure authentication and authorization in Cisco WCS?
Refer to the exhibit.

Which GUI item do you click to configure authentication and authorization in Cisco WCS?
A. Security
B. Monitor
C. Configure
D. Services
E. Administration
F. Tools

Correct Answer: E
Explanation/Reference:

**Question 109**
DRAG DROP – (Topic 5)

Correct Answer: A
Explanation/Reference:

**Question 110**
Which menu can you use to do compare the configurations?
Refer to the exhibit.
You made a manual configuration change to a controller and now you need to compare the controller configuration seen on Cisco WCS to the configuration that is present in the controller.

Which menu can you use to do compare the configurations?
A. Reports
B. Monitor
C. Configure
D. Services
E. Administration
F. Tools

Correct Answer: C
Explanation/Reference:

Question 111
Which GUI item do you click to configure maps with APs in Cisco WCS?
Refer to the exhibit.

Which GUI item do you click to configure maps with APs in Cisco WCS?
A. Configure
B. Client
C. CleanAir
D. Services
E. Administration
F. Monitor

Correct Answer: F
Explanation/Reference:

Question 112
What is the purpose of the Log Analysis tab on the Client Troubleshooting page in Cisco WCS?
What is the purpose of the Log Analysis tab on the Client Troubleshooting page in Cisco WCS?
A. After you click start, the tab shows debug information for the client that is trying to re-associate.
B. The tab searches the logs for similar problems of other clients and generates a report.
C. The tab generates a report from historical logs for the client that is having problems.
D. The tab shows logs from the past hour for the client that is having problems.

Correct Answer: A
Explanation/Reference:

Question 113
When the Cisco WCS Navigator has been deployed, how are the existing Cisco WCS servers added to the Cisco WCS Navigator, which software versions are supported, and which protocol(s) do they use to communicate with Navigator?
You have a small organization with multiple Cisco WCS servers. Management has become cumbersome and you are planning to deploy Cisco WCS Navigator. When the Cisco WCS Navigator has been deployed, how are the existing Cisco WCS servers added to the Cisco WCS Navigator, which software versions are supported, and which protocol(s) do they use to communicate with Navigator?
A. Cisco WCS Navigator searches the enterprise intranet to locate the existing Cisco WCS servers and adds them automatically using SOAP as long as there is only a difference of one version or less between Cisco WCS and WCS Navigator.
B. Each existing Cisco WCS server must be added manually and use SOAP/HTTP to communicate with the Cisco WCS Navigator platform as long as the software versions of Cisco WCS and Cisco WCS Navigator are the same.
C. Cisco WCS must be on the same software version as Cisco WCS Navigator and each Cisco WCS server is added automatically using XML over HTTP.
D. When Cisco WCS Navigator is added, all the Cisco WCS servers must be added manually, each system must use the same software release as Navigator, and the Cisco WCS communicates with Cisco WCS Navigator by using SOAP/XML over HTTPS.

Correct Answer: D
Explanation/Reference:

Question 114
Which tool is shown?
Refer to the exhibit.

Which tool is shown?
A. Cisco WCS client troubleshooting tool
B. Cisco WLC client troubleshooting tool
C. WLAN Client Debug Analyzer
D. Cisco WLAN Connection Advisor

Correct Answer: A
Explanation/Reference:

Question 115
What are the four parts?
The results of a Cisco WCS client troubleshooting tool are summarized into a simple visual representation of a four-part progression of the connection status for a wireless client. What are the four parts? (Choose four.)
A. client MAC address
B. 802.11 authentication
C. IP address assignment
D. 802.11 association
E. successful association
F. authentication method
G. SSID
H. client radio type

Correct Answer: BCDE
Explanation/Reference:

Question 116
What must be done for Cisco WLC and Cisco WCS to communicate?

A. The IP address and subnet mask of the Cisco WLC must be configured in the Cisco WCS.
B. The IP address and subnet mask of the Cisco WCS must be configured in the Cisco WLC.
C. The identity certificate of the Cisco WLC must be added to the Cisco WCS.
D. The Cisco WLC and Cisco WCS must exchange identity certificates.

Correct Answer: A

Explanation/Reference:

Question 117
Which menu gives you access to manage background tasks in Cisco WCS?
Refer to the exhibit.

A. None, because the General tab provides access to the management of background tasks
B. Monitor
C. Configure
D. Services
E. Administration
F. Tools

Correct Answer: E

Explanation/Reference:

Question 118
Where can this command be found in the drop-down menu?
A network engineer in the GUI of WCS version 7 wants to add an autonomous access point. Where can this command be found in the drop-down menu?
A. Configure > Access Point > Add Autonomous APs
B. Manage > Access Points > Add Autonomous APs
C. Administration > Access Point > Add Autonomous APs
D. Location > Access Point > Add Autonomous APs

Correct Answer: A

Explanation/Reference:

Question 119
How do improperly set Telnet/SSH parameters effect the configuration of a controller with Cisco WCS?
Refer to the exhibit.
How do improperly set Telnet/SSH parameters effect the configuration of a controller with Cisco WCS?

A. The CLI and GUI management of the controller both fail because Cisco WCS checks these credentials before opening a session.
B. The Telnet/SSH username must have sufficient privileges to execute commands in CLI templates.
C. The GUI management of the controller fails because the Cisco WCS uses the Telnet/SSH parameters to login to the controller.
D. The controller remains configured in the Cisco WCS, but no management is possible through GUI from other client browsers.

Correct Answer: B
Explanation/Reference:

Question 120
Which Extensible Authentication Protocol types are supported by the Cisco Unified Wireless Network?
Which Extensible Authentication Protocol types are supported by the Cisco Unified Wireless Network?
A. EAP-TLS, PEAP-MSCHAPv2, and PEAP-GTC only
B. LEAP and EAP-FAST only
C. EAP-TLS, PEAP-MSCHAPv2, PEAP-GTC, LEAP, and EAP-FAST only
D. any EAP supported by the RADIUS authentication server

Correct Answer: D
Explanation/Reference:
Topic 5, Operate Basic WCS

Question 121
What are four features of WPA? (Choose four.)
A. a larger initialization vector, increased to 108 bits
B. a message integrity check protocol to prevent forgeries
C. authenticated key management using 802.1X
D. support for a key caching mechanism
E. unicast and broadcast key management
F. requires AES-CCMP

Correct Answer: ABC
Explanation/Reference:

Question 122
Which option must be chosen if only the WPA is needed?
Refer to the exhibit.
Which option must be chosen if only the WPA is needed?
A. WPA+WPA2
B. Static-WEP + 802.1X
C. 802.1X
D. CKIP

Correct Answer: A

Question 123
Which type of connection is created between the controller-based AP and the client?
When a guest client is authenticated, which type of connection is created between the controller-based AP and the client?
A. as SSL connection
B. a TLS encrypted tunnel
C. an unsecured connection
D. a 802.1x/EAP tunnel
E. an IPsec tunnel

Correct Answer: C

Question 124
Which type of connection is created between the controller-based AP and the client?
When a guest client is authenticated, which type of connection is created between the controller-based AP and the client?
A. as SSL connection
B. a TLS encrypted tunnel
C. an unsecured connection
D. a 802.1x/EAP tunnel
E. an IPsec tunnel

Correct Answer: C

Question 125
Which encryption algorithm does WPA use?
Which encryption algorithm does WPA use?
A. RC4
B. DES
C. AES
D. DH5

Correct Answer: A

Question 126
Which two types of encryption does Windows support for WPA2 security for wireless connections?
Which two types of encryption does Windows support for WPA2 security for wireless connections? (Choose two.)
A. AES
B. DES
C. PGP
D. TKIP
E. WEP

Correct Answer: AD

Question 127
Which method is used to shield the client from class 3 management attacks?
Which method is used to shield the client from class 3 management attacks?
A. client MFP
B. WEP
C. WPA
D. client protection suite
E. 802.1X

Correct Answer: A

Question 128
Which AP mode meets this requirement while having the radios up and preventing client connections?
The network administrator wants an access point to be able to find rogue APs and to support location-based services. Which AP mode meets this requirement while having the radios up and preventing client connections?
A. monitor
B. sniffer
C. rogue-detection
D. H-REAP

Correct Answer: A
Question 129
What is a risk when initiating the containment of a rogue AP?
A. disassociating clients of valid access points that are operated by a neighboring organization
B. disrupting transmission of neighboring AP clients
C. breaking the radio of the containing AP
D. breaking the rogue client radio or its firmware
Correct Answer: A

Question 130
Which wireless client attempts to authenticate by using 802.1X?
A. supplicant
B. authenticator
C. EAP
D. RADIUS
Correct Answer: A

Question 131
DRAG DROP – (Topic 4)
Correct Answer: A

Question 132
Which method of encryption does the 802.11i standard use?
A. AES-CCMP
B. AES-ECB
C. AES/OCB

D. TKIP  
E. both AES/ECB and AES/CCMP  

Correct Answer: A  
Explanation/Reference:

**Question 133**  
Which protocol helps the administrator to determine whether a detected rogue AP is in the network of the organization?  
Which protocol helps the administrator to determine whether a detected rogue AP is in the network of the organization?  
A. RLDP  
B. RCP  
C. RDP  
D. RAPP  

Correct Answer: A  
Explanation/Reference:

**Question 134**  
DRAG DROP – (Topic 4)  
DRAG DROP – (Topic 4)  

Correct Answer: A  
Explanation/Reference:

**Question 135**  
Which three pieces of source identification information can be used by the controller for an Access-Request message that is sent to an external RADIUS server?  
When a wireless client is authenticated in a controller-based wireless network, which three pieces of source identification information can be used by the controller for an Access-Request message that is sent to an external RADIUS server? (Choose three.)  
A. wireless client IP address  
B. controller IP address  
C. AP IP address  
D. wireless client MAC address  
E. controller MAC address  
F. AP MAC address  

Correct Answer: BEF  
Explanation/Reference:

**Question 136**  
Which statement about configuration of Layer 2 wireless user authentication on a Cisco WLC is true?  
Which statement about configuration of Layer 2 wireless user authentication on a Cisco WLC is true?  
A. Local EAP is used only if an external RADIUS is not configured or is unreachable.  
B. The external RADIUS is used only if local EAP is not configured.  
C. The administrator chooses whether local EAP or an external RADIUS is used first.  
D. The external RADIUS is used only if local EAP is explicitly disabled.  

Correct Answer: A  
Explanation/Reference:

**Question 137**  
What does the yellow shield with the exclamation mark indicate?  
Refer to the exhibit.
What does the yellow shield with the exclamation mark indicate?
A. The network uses open authentication and no encryption.
B. The network uses an unsupported channel.
C. The signal is too distorted to connect.
D. The AP that is transmitting this SSID uses the wrong RF domain.
E. This is the ad-hoc network.
Correct Answer: A
Explanation/Reference:

Question 138
Why is it still possible for a rogue client to launch a DOS attack?
In a typical wireless network using WPA, WPA2 or VPN, why is it still possible for a rogue client to launch a DOS attack?
A. WPA and WPA2 are not considered strong encryption algorithms and are easily cracked.
B. 802.11 management frames are easily compromised.
C. Cisco Compatible Extensions v5 are required with WPA, WPA2 or VPN to keep rogues from launching attacks in the wireless network.
D. The message integrity check frames are never encrypted or authenticated, which allows rogues to spoof clients.
Correct Answer: B
Explanation/Reference:

Question 139
Which two of the following authentication methods used for WiFi security require the use of certificates?
Which two of the following authentication methods used for WiFi security require the use of certificates? (Choose two.)
A. PEAP
B. EAP-FAST
C. WPA2
D. WPA1
E. EAP-TLS
F. EAP-MD5
Correct Answer: AE
Explanation/Reference:

Question 140
Which two entities must be configured with the shared secret key for 802.1X authentication?
In a network with a deployed Cisco WLC, which two entities must be configured with the shared secret key for 802.1X authentication? (Choose two.)
A. WLC
B. RADIUS server
C. AP
D. supplicant
E. wireless client
Correct Answer: AB
Explanation/Reference:

Question 141
Which official port should be used when configuring external RADIUS authentication on a Cisco WLC version 7.0?
Which official port should be used when configuring external RADIUS authentication on a Cisco WLC version 7.0?
A. 49
B. 1645
C. 1646
Question 142
Which tab is used to set up web authentication for guest users?
Refer to the exhibit.

![Cisco WLC screenshot showing the Advanced tab with Security > Layer 3 selected]

Which tab is used to set up web authentication for guest users?
A. Security > Layer 3
B. Security > Layer 2
C. Security > AAA Servers
D. Advanced
E. General

Correct Answer: A
Explanation/Reference:

Question 143
What should you do for improved security?
You are configuring SNMPv1/v2c on a WLC. What should you do for improved security?
A. Remove the default SNMPv1 community.
B. Remove the default SNMPv1 and SNMPv2 communities.
C. Remove the default SNMPv2 community.
D. Remove the default SNMPv3 users.

Correct Answer: B
Explanation/Reference:

Question 144
DRAG DROP – (Topic 4)

Correct Answer: A
Question 145
Which EAP protocol requires a certificate only on the server side?
A. EAP-PEAP
B. EAP-FAST
C. EAP-TLS
D. EAP-SSL
Correct Answer: A

Question 146
Which key is established using the four-way handshake during the WPA authentication process?
A. Pairwise Master Key
B. Pairwise Multiple Key
C. Pairwise Session Key
D. Pairwise Transient Key
E. Pairwise Transverse Key
Correct Answer: D

Question 147
What are the interface statuses of a lightweight AP working in rogue-detection mode?
A. radios turned off, Ethernet interface up
B. radios and Ethernet interfaces up
C. radios turned on, Ethernet interface shut down
D. radios turned on, Ethernet interface status controlled by Cisco WLC
Correct Answer: A

Question 148
Which statement describes a security weakness of a WPA2 with a PSK?
A. The compromised key can be used for another connection.
B. The key can be eavesdropped from the wireless medium.
C. The key can be recreated from a few eavesdropped frames.
D. The key is not case-sensitive and is vulnerable to compromise by brute-force methods.
Correct Answer: A

Question 149
Which two steps must you take to provide maximum security when using a pre-shared key?
A. Change the TKIP on a weekly basis.
B. Use a key that includes mixed-case letters, numbers, and symbols with a length greater than 10 characters.
C. Use only with WPA and WPA2, following proper strong key guidelines.
D. Use the longest possible WEP key in your security policy.
Correct Answer: BC

Question 150
What is the impact of configuring a single SSID to support TKIP and AES encryption simultaneously?
A. The overhead associated with supporting both encryption methods degrades client throughput significantly.
B. Some wireless client drivers might not handle complex SSID settings and may be unable to associate to the WLAN.
C. This configuration is unsupported and the Cisco Wireless Control System generates alarms continuously until the configuration is corrected.
D. This configuration is common for migrating from WPA to WPA2. No problem is associated with using this configuration.
Correct Answer: B

Question 151
Which open standard defines the combination of Extensible Authentication Protocol with Advanced Encryption Standard for providing strong wireless LAN client security?
A. IEEE 802.1X
B. IEEE 802.11i
C. WEP
D. WPA
Question 152
Which statement about the impact of configuring a single SSID to support TKIP and AES encryption simultaneously is true?
A. The overhead associated with supporting both encryption methods significantly degrades client throughput.
B. Some wireless client drivers might not handle complex SSID settings and may be unable to associate to the WLAN.
C. This configuration is unsupported and the Cisco Wireless Control System generates alarms continuously until the configuration is corrected.
D. This configuration is common for migrating from WPA to WPA2. No problem is associated with using this configuration.
Correct Answer: B
Explanation/Reference:

Question 153
Where are the wireless encryption keys located during the active user session?
A. On the access point
B. On the RADIUS server
C. On the Cisco WCS
D. On the client
E. On the Cisco WLC
Correct Answer: AD
Explanation/Reference:

Question 154
What are two security threats to wireless networks?
A. ad-hoc networks
B. client misassociation
C. port redirection
D. cross-site scripting
Correct Answer: AB
Explanation/Reference:

Question 155
How many RADIUS servers can be configured globally and per WLAN on a Cisco WLC version 7.0?
A. 7 global; additional 1 per WLAN
B. 7 global; additional 3 per WLAN
C. 17 global; additional 1 per WLAN
D. 17 global; additional 3 per WLAN
E. 7 global; reuse of up to 1 maximum per WLAN
F. 17 global; reuse of up to 1 maximum per WLAN
G. 17 global; reuse of up to 3 maximum per WLAN
Correct Answer: G
Explanation/Reference:

Question 156
Which two MFP requirements protect the network?
A. forces clients to authenticate, using a secure EAP method only
B. implements the validation of wireless management frames
C. requires Cisco Compatible Extensions v5
D. requires the use of nonbroadcast SSID
E. requires Cisco Compatible Extensions v4
Correct Answer: BC
Explanation/Reference:

Question 157
Which five options are results of that exchange being used on a controller-based network?
A. a bidirectional exchange of a nonce used for key generation
B. binding of a Pairwise Master Key at the client and the controller
C. creation of the Pairwise Transient Key
D. distribution of the Group Transient Key
E. distribution of the Pairwise Master key for caching at the access point
F. proof that each side is alive
Correct Answer: ABCDF
Question 158
For which two functions is the pre-shared key used?
When the pre-shared key authentication method is used for WPA or WPA2, for which two functions is the pre-shared key used? (Choose two.)
A. to act as the Group Transient Key during the bidirectional handshake
B. to act as the Pairwise Master Key during the bidirectional handshake
C. to derive the nonce at each side of the exchange
D. to derive the Pairwise Transient Key
Correct Answer: BD
Explanation/Reference:

Question 159
Which four parameters must be configured for local EAP-FAST on the controller?
Which four parameters must be configured for local EAP-FAST on the controller? (Choose four.)
A. authority ID
B. authority ID Information
C. client key
D. PAC
E. server key
F. TTL for PAC
G. monitor key
H. NTP source
Correct Answer: ABEF
Explanation/Reference:

Question 160
Which three items do you need to establish a wireless connection?
You are about to use a hotel’s guest wireless services using a wireless laptop. Which three items do you need to establish a wireless connection? (Choose three.)
A. SSID name
B. RF channel
C. RF signal
D. 802.1X/EAP credentials
E. pre-shared key
F. web page
G. WPA/WPA2 settings
Correct Answer: ACF
Explanation/Reference:

Question 161
What is the most likely cause of this issue?
You have an Apple iOS iPhone4 that is used on your home Wi-Fi network and a personal laptop that is used on your work’s enterprise wireless network. At your office, you are unable to see the enterprise wireless network on your iPhone4. What is the most likely cause of this issue?
A. WPA2 CPU intensive encryption is not supported on the client.
B. WPA2 must be enabled on the client.
C. A new profile must be created on the client.
D. Wi-Fi must be enabled on the client.
E. The enterprise is 2.4 GHz only.
F. The enterprise is 5 GHz only.
G. The RF channel must be adjusted on the client.
Correct Answer: F
Explanation/Reference:

Question 162
Which option shows the GUI path where you can check the connection status of that client?
The wireless network is using controller-based APs and version 7.0 MR1. The APs appear to be connected properly to the controllers. A wireless user near one of the APs reports that they are unable to connect to the network with their pre-shared key. Which option shows the GUI path where you can check the connection status of that client?
A. WLANs > WLAN_ID > Advanced
B. Security > Clients
C. Security > Advanced > Clients
D. Monitor > Clients
E. Wireless > 802.11b/g/n > clients
Correct Answer: D
Explanation/Reference:

Question 163
Which statement about the level of signal strength and the WLAN security that is present is true?
You are in a coffee shop and you have connected to their wireless hot-spot. Your Windows 7 wireless client shows five green bars with a yellow shield. Which statement about the level of signal strength and the WLAN security that is present is true?
A. You have excellent signal strength and a secure network connection.
B. Your wireless client needs a username and password before it can connect to the WLAN.
C. You have excellent signal strength and the client is waiting for you to enter a username and password.
D. Your laptop is not receiving a signal.
E. Your laptop is receiving an excellent signal and the network security is open.

Correct Answer: E
Explanation/Reference:

**Question 164**
What does this mean?
You are sitting in an airport preparing to use a free WLAN. When you look at the connections in your Windows 7 wireless client, you see a network name and three boxes with a yellow shield.
What does this mean?
A. You cannot connect to this WLAN.
B. An open ad hoc network is nearby.
C. The WLAN in the airport is open.
D. A secure ad hoc network is nearby.
E. A secure WLAN is in the airport.
F. You must provide a username and password to access the WLAN in the airport.

Correct Answer: B
Explanation/Reference:

**Question 165**
Which option is needed to earn the Cisco Compatible credential for Cisco Compatible Extensions Lite?

Correct Answer: F
Explanation/Reference:

**Question 166**
Which Cisco AnyConnect module allows troubleshooting for core AnyConnect problems?

Correct Answer: E
Explanation/Reference:

**Question 167**
How are application-specific devices differentiated from laptop computers in the way they support Cisco Compatible Extensions?

Correct Answer: C
Explanation/Reference:

**Question 168**
Which statement about the laptop configuration and wireless connection is true?
You have brought your MacBook Pro running OS 10.6 to work and intend use the enterprise wireless network. This network is using EAP-FAST and 2.4 GHz for data and 5 GHz for VoWLAN.
Which statement about the laptop configuration and wireless connection is true?
A. Install a USB wireless adapter and configure
B. Install Apple EAP-Fast plug-in and configure
C. Install Cisco AnyConnect v2.4 and configure
D. Configure Apple network preferences for EAP-FAST
E. The laptop does not support EAP-FAST and will be unable to connect
F. The laptop only supports 5 GHz and will be unable to connect

Correct Answer: D
Explanation/Reference:
Question 169
Which two items should be configured on the wireless client?
An AP has been configured for personal wireless access to the Internet using appropriate security and cloaking. Which two items should be configured on the wireless client? (Choose two.)
A. RF channel
B. BSS
C. PSK
D. 802.1X/EAP
E. broadcast SSID
F. manual SSID
G. IBSS
Correct Answer: CF
Explanation/Reference:

Question 170
Which Cisco AnyConnect module provides wireless connectivity?
Which Cisco AnyConnect module provides wireless connectivity?
A. telemetry
B. web security
C. VPN
D. NAM
E. DART
F. posture
G. CSSC
Correct Answer: D
Explanation/Reference:

Question 171
Which key combination provides a detailed wireless connection status for an Apple MacBook running 10.6?
Which key combination provides a detailed wireless connection status for an Apple MacBook running 10.6?
A. Command + Click the SSID of the network
B. Alt + Click the SSID of the network
C. Command + the Airport icon
D. Option + the Airport icon
E. Ctrl + the Airport Icon
F. Option + Click the SSID of the network
Correct Answer: D
Explanation/Reference:

Question 172
Which Cisco AnyConnect module allows you to set the parameters that are needed to connect to the wireless network?
Which Cisco AnyConnect module allows you to set the parameters that are needed to connect to the wireless network?
A. Network Access Manager
B. DART
C. posture
D. telemetry
Correct Answer: A
Explanation/Reference:

Question 173
Which module does the Cisco AnyConnect Secure Mobility client integrate into the AnyConnect client package for access to both wired and wireless networks?
Which module does the Cisco AnyConnect Secure Mobility client integrate into the AnyConnect client package for access to both wired and wireless networks?
A. Network Access Manager
B. Telemetry
C. Web Security
D. DART
Correct Answer: A
Explanation/Reference:

Question 174
Which statement best describes the abilities of these devices?
The introduction of consumer phones and tablets into enterprise WLANs can have an impact on 802.11a/b/g/n deployments. The Apple iPhone 4 and iPad 2 are very common examples.
Which statement best describes the abilities of these devices?
A. The Apple iPhone 4 and the iPad 2 use 2.4 GHz and 5 GHz. The Apple iPhone 4 uses only one spatial stream and the iPad 2 uses two spatial streams.
B. The Apple iPhone 4 uses only 2.4 GHz and the iPad 2 only uses 5 GHz. The Apple iPhone 4 uses only one spatial stream and the iPad 2 uses two spatial streams.
C. The Apple iPhone 4 uses 2.4 GHz and the iPad 2 uses 2.4 GHz or 5 GHz. The Apple iPhone 4 only uses one spatial stream and the iPad 2 uses two spatial streams.
D. The Apple iPhone 4 uses 2.4 GHz and the iPad 2 uses 2.4 GHz or 5 GHz. The Apple iPhone 4 and the iPad 2 use only one spatial stream.
Correct Answer: D
Explanation/Reference:
Question 175
Which Cisco AnyConnect module provides wireless connectivity?
A. telemetry
B. web security
C. VPN
D. NAM
E. DART
F. posture
G. CSSC

Correct Answer: D
Explanation/Reference:

Question 176
What are two wireless configuration utilities for Apple Mac computers?
A. AirPort
B. AirPort Extreme
C. AirManager
D. AirManager Supreme
E. AirAssistant Ultimate

Correct Answer: AB
Explanation/Reference:

Question 177
DRAG DROP – (Topic 3)

Correct Answer: A
Explanation/Reference:

Question 178
Which Cisco AnyConnect module allows troubleshooting for core Cisco AnyConnect problems?
A. telemetry
B. web security
C. VPN

D. NAM  
E. DART  
F. posture  
G. CSSC  

Correct Answer: E  
Explanation/Reference:  

**Question 179**  
Which module must be installed first?  
When Cisco AnyConnect modules are installed on a PC, which module must be installed first?  
A. telemetry  
B. web security  
C. VPN  
D. NAM  
E. DART  
F. posture  
G. CSSC  

Correct Answer: C  
Explanation/Reference:  

**Question 180**  
Which Cisco program for WLAN client vendors helps to ensure that their devices are interoperable with Cisco WLAN infrastructure?  
Which Cisco program for WLAN client vendors helps to ensure that their devices are interoperable with Cisco WLAN infrastructure?  
A. CCX  
B. CCMP  
C. ASDM  
D. WLSE  

Correct Answer: A  
Explanation/Reference:  

**Question 181**  
What are two modules of the CCX Lite program?  
What are two modules of the CCX Lite program? (Choose two.)  
A. foundation  
B. voice  
C. RF power  
D. roaming  

Correct Answer: AB  
Explanation/Reference:  

**Question 182**  
Which option describes why most wireless phones and tablets do not use 802.11a/n and 40 MHz channels?  
Which option describes why most wireless phones and tablets do not use 802.11a/n and 40 MHz channels?  
A. a lack of radio range when using these radios  
B. a lack of device battery capacity to operate concurrent a/b/g/n radios  
C. a lack of cooling in the device necessary to operate these radios  
D. These radios would require the devices to be larger  

Correct Answer: B  
Explanation/Reference:  

**Question 183**  
What is the function of the Cisco AnyConnect DART tool?  
What is the function of the Cisco AnyConnect DART tool?  
A. creates a compressed bundle of client logs and information  
B. visualizes a WLAN environment, showing the possible locations of problems  
C. gathers statistics from neighboring clients for comparison to the baseline  
D. helps to troubleshoot a WLAN connection by using easy-to-use wizards and statistic viewers  

Correct Answer: A  
Explanation/Reference:  

**Question 184**  
Which statement best describes the ability of a wireless client to access and transmit a data frame to an AP?  
Which statement best describes the ability of a wireless client to access and transmit a data frame to an AP?  
A. The client listens to the media until polled by the AP using PCF to send its data.  
B. The client listens to the media until a data frame is finished, at which time it transmits, unless a collision of data frames has occurred.  
C. The client uses random countdown timers to start the transmission of a data frame.  
D. The client listens to the media and countdown timers to start the transmission of a data frame.  

Correct Answer: D  
Explanation/Reference:  
*Topic 3, Install Wireless Clients*  

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Question 185
Which version of Cisco Compatible Extensions supports PEAP-GTC?
You run minimum PEAP-GTC authentication in your wireless environment. Which version of Cisco Compatible Extensions supports PEAP-GTC?
A. Cisco Compatible Extensions v1
B. Cisco Compatible Extensions v2
C. Cisco Compatible Extensions v3
D. Cisco Compatible Extensions v4
E. Cisco Compatible Extensions v5

Correct Answer: B
Explanation/Reference:

Question 186
Which three options help to verify the wireless network operation and locate a possible issue?
A. Verify status of GUI Wireless > Country
B. Verify status of GUI Wireless > Timers
C. Verify status of GUI WLANs > ID > Advanced
D. CLI debug of dot1
E. CLI debug of DHCP
F. Verify Cisco WLC license
G. Verify Cisco WLC model

Correct Answer: AEF
Explanation/Reference:

Question 187
Which three Cisco Unified Wireless Network capabilities use information that is provided by Radio Resource Management neighbor messages?
A. aggressive load balancing
B. dynamic channel assignment
C. hybrid remote edge access point
D. inter controller mobility (that is, mobility groups)
E. over-the-air provisioning
F. rogue AP classification

Correct Answer: BEF
Explanation/Reference:

Question 188
Which information on the Monitoring page of a Cisco WLC verifies that the wireless network is operational?
A. In the Access Point Summary section, the All APs number in the Up column is the same as in the Total column.
B. In the Client Summary section, the Current Clients number is positive.
C. In the Controller Summary section, the 802.11b/g Network State is shown as Enabled.
D. In the Controller Summary section, the CPU Usage number is positive.

Correct Answer: A
Explanation/Reference:

Question 189
Which CAPWAP AP management-access method is available as the default setting?
A. only the console port
B. the console port and SSH
C. the console port, SSH, and HTTPS
D. SSH only

Correct Answer: A
Explanation/Reference:

Question 190
Which statement about customization of a web page that is used on a WLC to authorize guest users is true?
A. The administrator can use either a modified internal login page or the customized web page.
B. The administrator can use only the internal login page, and only the organization logo can be changed.
C. The administrator can use only the internal login page with a customized logo, headline, and message.
D. The administrator can use only the customized web page that is uploaded to a WLC.

Correct Answer: A
Explanation/Reference:

Question 191
Which interface do you use to configure the IP address?
You are configuring an IP address on an autonomous access point. Which interface do you use to configure the IP address?
A. BVI1
B. FastEthernet 0
C. Dot11Radio0
**Question 192**
DRAG DROP – (Topic 2)

Which three AP modes of operation allow for the wIPS sub mode? (Choose three.)

A. local mode
B. bridge mode
C. monitor mode
D. H-REAP mode
E. rogue detector mode
F. SE-Connect mode
G. sniffer mode

Correct Answer: ACD

**Question 193**

Which two items are used to help convert a lightweight AP into an autonomous AP?

A. HTTP express setup on the AP
B. Cisco WCS template
C. Cisco WLC CLI
D. Windows Cisco Conversion Tool
E. image with naming convention of platform_name-k9w7-tar.default
F. image with naming convention of platform_name-rcvk9w8-tar

Correct Answer: CE

**Question 194**

Which two items are used to help convert a lightweight AP into an autonomous AP? (Choose two.)

A. HTTP express setup on the AP
B. Cisco WCS template
C. Cisco WLC CLI
D. Windows Cisco Conversion Tool
E. image with naming convention of platform_name-k9w7-tar.default
F. image with naming convention of platform_name-rcvk9w8-tar

Correct Answer: CE
Question 195
Which action secures the SNMPv2C protocol in a Cisco WLC?
A. configure new communities and disable default communities
B. use digital certificates to authenticate and encrypt transmissions
C. enable password or transfer encryption
D. set a username and difficult-to-guess password
Correct Answer: A
Explanation/Reference:

Question 196
Which two Cisco Unified Wireless Network capabilities use information that is provided by Radio Resource Management neighbor messages in version 7.0 MR1?
A. aggressive load balancing
B. dynamic channel assignment
C. hybrid remote edge access point
D. inter-controller mobility (that is, mobility groups)
E. rogue AP classification
Correct Answer: BE
Explanation/Reference:

Question 197
DRAG DROP – (Topic 2)
Cisco WLCs running version 7.0 can be enabled for CleanAir functionality by using an AGI rating from 1 to 100. Event-driven RRM can take immediate action on AGI levels based on three sensitivity thresholds (Low, Medium, High), which are configurable in the web-based GUI. The network administrator must understand what AGI value is set using these sensitivity thresholds in version 7.0. Drag the AGI values on the left and drop them on the threshold name they belong to on the right.

Correct Answer: A
Explanation/Reference:

Question 198
Which item should be configured on the wireless client?
A. RF channel
B. BSS
C. PSK
D. 802.1X/EAP
E. broadcast SSID

F. IBSS
Correct Answer: C
Explanation/Reference:

**Question 199**
DRAG DROP – (Topic 2)
DRAG DROP – (Topic 2)

Drag the feature descriptions from the left and drop them onto the corresponding AP operational mode names on the right.

- Layer 2 forwarding for remote analysis
- wPS, MSE
- AVPP, local bridging
- Layer 1 forwarding for remote analysis
- VLAN trunk access, wired IDS
- local bridging, wPS, OEP, VLAN trunk access
- site survey, wPS, MSE
- local mode
- monitor mode
- rogue detector mode
- bridge mode
- 802.11e mode
- 802.11n mode

Correct Answer: A
Explanation/Reference:

**Question 200**
Which three options are limitations when configuring basic security on an autonomous AP when using the express security page setup? (Choose three.)
A. You need multiple SSIDs.
B. Delete all the SSIDs.
C. Edit the SSIDs.
D. Use multiple authentication servers.
E. Use the same SSID on both radios.
F. Use a single SSID on a single radio.

Correct Answer: CDE
Explanation/Reference:

**Question 201**
Which two statements about the requirements to configure inter-controller roaming are true?
Which two statements about the requirements to configure inter-controller roaming are true? (Choose two.)
A. The same mobility domain names are configured across controllers.
B. The same RF group names are configured across controllers.
C. The same controller hardware version is configured across controllers.
D. The same AP manager interface is configured across controllers.
E. The same virtual interface is configured across controllers.
F. The same controller software version is configured across controllers.

Correct Answer: AE
Explanation/Reference:

**Question 202**
Which three options relate to event-driven RRM?
Which three options relate to event-driven RRM? (Choose three.)
A. any 802.11n AP models
B. specific AP models
C. minimum of AP and WLC  
D. minimum of AP, WLC, and WCS  
E. minimum of AP, WLC, WCS, and MSE  
F. configurable in WLC at 802.11b/g/n > RRM > TPC  
G. configurable in WLC at 802.11b/g/n > RRM > DCA

Correct Answer: BCG
Explanation/Reference:

Question 203
Which Cisco WLC command family can help to troubleshoot communication between an AP and the WLC?  
Which Cisco WLC command family can help to troubleshoot communication between an AP and the WLC?  
A. (Cisco Controller) >debug capwap  
B. (Cisco Controller) >debug ap  
C. (Cisco Controller) >debug cac  
D. (Cisco Controller) >debug dot11

Correct Answer: A
Explanation/Reference:

Question 204
Which step does the AP take next?  
A lightweight AP has been deployed in local mode in a network that consists of 10 wireless LAN controllers in a single mobility group. The AP has been configured to use primary, secondary, and tertiary Cisco WLCs. Due to a major power failure, all those Cisco WLCs are unavailable.  
Which step does the AP take next?  
A. The AP reboots and repeatedly attempts to join the configured primary, secondary, and tertiary Cisco WLCs that is order. The process continues until one of the configured Cisco WLCs is available.  
B. The AP attempts to join a Cisco WLC configured as a master controller.  
C. The AP attempts to join the Cisco WLC that has the greatest capacity available.  
D. The AP state transitions to AP Fallback Mode and continues to provide limited WLAN services (that is, no new client authentications) until a Cisco WLC is available.

Correct Answer: B
Explanation/Reference:

Question 205
Which format should be used for the Cisco WLC addresses?  
A WLAN deployment uses a combination of Cisco Aironet 1260 APs and multiple Cisco 5500 Wireless LAN Controllers to provide wireless LAN access to end-users. The network administrator has decided to use DHCP Option 43 to enable the APs to discover the wireless LAN controllers.  
When configuring the DHCP scope, which format should be used for the Cisco WLC addresses?  
A. a comma-separated ASCII string of Cisco WLC AP-manager addresses  
B. a comma-separated ASCII string of Cisco WLC management addresses  
C. a comma-separated ASCII string of Cisco WLC virtual IP addresses  
D. a hexadecimal string of Cisco WLC AP-manager addresses  
E. a hexadecimal string of Cisco WLC management addresses  
F. a hexadecimal string of Cisco WLC virtual IP addresses

Correct Answer: E
Explanation/Reference:

Question 206
Which step does the AP take next?  
An AP using version 7.0 MR1 broadcasts a Layer 3 CAPWAP discovery message on the local IP subnet. Which step does the AP take next?  
A. Determine if the controller responses include the primary controller.  
B. Determine if the controller responses include the master controller.  
C. Send a discovery request using DHCP option 43.  
D. Send a discovery request using DNS.  
E. Send a discovery request using locally stored information on the AP.  
F. Send a discovery request using OTAP.

Correct Answer: E
Explanation/Reference:

Question 207
Which two items are needed to discover the IP address of a new Cisco Aironet 1260 autonomous AP that just finished booting?  
Which two items are needed to discover the IP address of a new Cisco Aironet 1260 autonomous AP that just finished booting? (Choose two.)  
A. username = “cisco” and password = “cisco”  
B. username = “Admin” and password = “Cisco”  
C. username=Cisco and password=Cisco  
D. show int vlan1  
E. show int bvi1  
F. show int gigabitethernet0  
G. show int radio0-802.11n  
H. show int radio1-802.11n

Correct Answer: CE
Explanation/Reference:

Question 208
How do you reach the GUI of the AP?
You are testing a new autonomous Cisco Aironet 1260 AP that has booted for the first time on the existing corporate network, which includes voice, data, and location services.

How do you reach the GUI of the AP?
A. HTTP to 10.0.0.1.
B. HTTP to 192.168.1.1.
C. HTTP to the DHCP address.
D. HTTPS to 10.0.0.1.
E. HTTPS to the 192.168.1.1.
F. HTTPS to the DHCP address.

Correct Answer: C
Explanation/Reference:

**Question 209**
DRAG DROP – (Topic 2)
DRAG DROP – (Topic 2)

Drag from the left the characteristics that are associated with the specific controller-based AP deployment mode and drop them in the appropriate category on the right.

Correct Answer: A
Explanation/Reference:

**Question 210**
Which methods are available for remote management access to an AP?
When an AP, in its default configuration mode, connects to a Cisco WLC, which methods are available for remote management access to an AP?
A. SSL and SSH are available only after configuration by a Cisco WLC version 7.0.
B. SSH only
C. HTTPS, and SSH
D. SSH and Telnet
E. SSH and Telnet are available only after configuration by a Cisco WLC version 7.0.

Correct Answer: D
Explanation/Reference:
Question 211
Which two protocols are available to download or upload files to or from Cisco WLC?
Which two protocols are available to download or upload files to or from Cisco WLC? (Choose two.)
A. FTP
B. TFTP
C. SCP
D. HTTP
E. HTTPS

Correct Answer: AB
Explanation/Reference:

Question 212
Which syslog facility option is shown?
Refer to the exhibit.

Which syslog facility option is shown?
A. an information field, which is added to every message that comes from the WLC
B. a security feature, which is set on the syslog server
C. the type of syslog server
D. the Cisco WLC identifier for this syslog server

Correct Answer: A
Explanation/Reference:

Question 213
DRAG DROP – (Topic 2)

Drag the features that are associated with Cisco Compatible Extensions Lite from the left and drop them in the appropriate category on the right.

Question 214
Which controller CLI command assigns its management interface to the native VLAN interface of the Cisco Catalyst switch?
A controller is connected to a Cisco Catalyst switch. The switch port configuration looks like this:
interface GigabitEthernet 1/0/10
switchport
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 1,20,30,50
switchport trunk native vlan 20
switchport mode trunk
Which controller CLI command assigns its management interface to the native VLAN interface of the Cisco Catalyst switch?
A. config interface vlan management 0
B. config interface vlan management 1
C. config interface vlan management 20
D. config interface vlan management 30
E. config interface vlan management 50
Correct Answer: A
Explanation/Reference:

Question 215
Which two statements best describe the LAG configuration between a Cisco WLC and a Cisco Catalyst switch?
Which two statements best describe the LAG configuration between a Cisco WLC and a Cisco Catalyst switch? (Choose two.)
A. The Catalyst switch should be configured for PAgP.
B. The Catalyst switch should be configured only for Layer 2 load balancing.
C. The Catalyst switch should be configured for “on” mode.
D. The Cisco WLC relies on the connected switch to perform the load-balance of traffic.
E. The Cisco WLC aggregates multiple management interfaces into a single virtual interface.
Correct Answer: CD
Explanation/Reference:

Question 216
Which controller is responsible for a guest client’s IP address and their security configuration?
When a wireless guest network is implemented using auto-anchor mobility in a controller-based wireless network, which controller is responsible for a guest client’s IP address and their security configuration?
A. any controller that supports the same VLAN
B. foreign controller
C. anchor controller
D. master controller
E. RF group master controller
Correct Answer: C
Explanation/Reference:

Question 217
Which software platform allows you to make this migration?
You have an organization that has a growing number of standalone APs. You would like to migrate to lightweight APs and manage them through Cisco WCS. Which software platform allows you to make this migration?
A. The enterprise version of Cisco WCS allows this migration and provides the most flexibility in the number of APs supported.
B. CiscoWorks WLSE is the only management platform that allows this migration, but it is limited to 500 APs.
C. You can migrate your network to Cisco WCS single server with the CiscoWorks WLSE upgrade software upgrade.
You can migrate the network by using either the single server or enterprise software platforms, both using the CiscoWorks WLSE upgrade software upgrade.

**Correct Answer:** C
**Explanation/Reference:**

**Question 218**
Which two Cisco WLC management-access methods are available as the default setting?
A. SSH
B. HTTPS
C. Telnet
D. HTTP

**Correct Answer:** AB
**Explanation/Reference:**

**Question 219**
Which two items do you need to create this connection?
You need to set up an ad hoc connection to another client in a conference room to exchange files using Windows 7. Which two items do you need to create this connection? (Choose two.)
A. SSID name
B. RF channel
C. 802.1X/EAP credentials
D. pre-shared key
E. Telnet
F. IBSS name
G. SSH

**Correct Answer:** DF
**Explanation/Reference:**

**Question 220**
Which three switch port types are valid for these connections?
Refer to the exhibit.

[Diagram of switch connections]

Which three switch port types are valid for these connections? (Choose three.)
A. access
B. port-channel
C. port-channel trunk
D. trunk
E. port-channel access
F. routed port

**Correct Answer:** ACD
**Explanation/Reference:**

**Question 221**
Which device divides a signal between two antennas?
A. splitter
B. lightening arrestor
C. attenuator
D. amplifier

**Correct Answer:** A
**Explanation/Reference:**

**Question 222**
Which three elements define the 802.11n implementation of MIMO?
The IEEE 802.11n standard provides 40-MHz channels, improved MAC efficiency, and MIMO. Which three elements define the 802.11n implementation of MIMO? (Choose three.)
A. channel bonding
B. dynamic frequency selection
C. maximal ratio combining
D. packet aggregation
E. spatial multiplexing
F. transmit beam forming

**Correct Answer:** CEF
**Explanation/Reference:**
Question 223
At which point in the network topology must the trunk be configured to support multiple SSIDs for voice and data separation? Refer to the exhibit.

A. A
B. B
C. C
D. D

Correct Answer: D
Explanation/Reference:

Question 224
What protocol is used to determine the best pathway back to a root access point?
A. CCKM
B. WNMP
C. AWPP
D. LWAP

Correct Answer: C
Explanation/Reference:

Question 225
Which of the following are three functions of Cisco RRM?
A. TPC
B. intercontroller roaming
C. dynamic channel assignment
D. intracontroller roaming
E. coverage hole detection

Correct Answer: ACE
Explanation/Reference:

Question 226
Which three parameters do you need to configure in the Windows 7 wireless network properties for this connection?
A. VLAN
B. encryption type
C. authentication method
D. VRF
E. security type
F. IP address

Correct Answer: BCE
Explanation/Reference:

Question 227
In which order does an access point try to discover a controller?
A. Layer 3 CAPWAP or LWAPP broadcast discovery
   DHCP option 43
   Locally stored controller IP address discovery
   DNS controller name resolution
B. Layer 3 CAPWAP or LWAPP broadcast discovery
   Locally stored controller IP address discovery
   DNS controller name resolution
   DHCP option 43
C. Layer 3 CAPWAP or LWAPP broadcast discovery
   Locally stored controller IP address discovery
   DHCP option 43
   DNS controller name resolution
D. DNS controller name resolution

Correct Answer: A
Explanation/Reference:
Layer 3 CAPWAP or LWAPP broadcast discovery
Locally stored controller IP address discovery

Correct Answer: C
Explanation/Reference:

**Question 228**
What are three primary components that describe TKIP?
What are three primary components that describe TKIP? (Choose three.)
A. broadcast key rotation
B. dynamic WEP
C. message integrity check
D. per-packet key hashing
E. symmetric key cipher
F. WPA2 enterprise mode

Correct Answer: ACD
Explanation/Reference:

**Question 229**
Which type of basic radiation pattern does a Yagi antenna have?
Which type of basic radiation pattern does a Yagi antenna have?
A. circular
B. semicircular
C. straight line
D. cone

Correct Answer: D
Explanation/Reference:

**Question 230**
Which two statements about WiMAX technology are true?
Which two statements about WiMAX technology are true? (Choose two.)
A. WiMAX is defined by 802.11i.
B. Typically, fixed WiMAX networks have a higher-gain directional antenna installed near the client.
C. WiMAX is capable of working as a long-range system over several miles.
D. WiMAX works only for licensed frequencies.

Correct Answer: BC
Explanation/Reference:

**Question 231**
How many dBm is 40 mW?
How many dBm is 40 mW?
A. 10 dBm
B. 16 dBm
C. 20 dBm
D. 22 dBm
E. 40 dBm

Correct Answer: B
Explanation/Reference:

**Question 232**
Which statement about an infrastructure basic service set is true according to IEEE 802.11 specifications?
Which statement about an infrastructure basic service set is true according to IEEE 802.11 specifications?
A. The set also is called an ad hoc network.
B. The BSSID is generated from the first wireless client that starts up in the IBSS.
C. The set enables the use of ESS.
D. No signals are relayed from one client to another client.

Correct Answer: C
Explanation/Reference:

**Question 233**
Which wireless topology supports roaming?
Which wireless topology supports roaming?
A. IBSS
B. BSS
C. ESS
D. bridging

Correct Answer: C
Explanation/Reference:

**Question 234**
What is the EIRP value for a transmitter that has a transmitter capable of 15 dBm, an antenna that has a gain of 12 dBi, and a cable that connects the transmitter to the antenna that has 1 db loss?
What is the EIRP value for a transmitter that has a transmitter capable of 15 dBm, an antenna that has a gain of 12 dBi, and a cable that connects the transmitter to the antenna that has 1 db loss?
A. 26 dBm
B. 100 mW
C. .86 dBm
D. 165 dBm
E. 1000 mW

Correct Answer: A

Explanation/Reference:

Question 235
What are the three primary functions of the Cisco Unified Wireless LWAPP architecture?
What are the three primary functions of the Cisco Unified Wireless LWAPP architecture? (Choose three.)
A. control and management of the CAPWAP
B. tunneling of VPN clients over the WAN
C. tunneling of WLAN client traffic to the WLC
D. collection of 802.1Q trunks
E. collection of 802.11 data for management
F. control and management of VTP

Correct Answer: ACE

Explanation/Reference:

Question 236
What is the difference between the IEEE, the WiFi Alliance, and the FCC, ETSI, and TELEC?
What is the difference between the IEEE, the WiFi Alliance, and the FCC, ETSI, and TELEC?
A. The IEEE and FCC are responsible for the standards that apply to wireless networks. The WiFi Alliance, ETSI, and TELE are the governmental agencies that regulate compliance with local standards.
B. The IEEE is responsible for Layer 1 and Layer 2 protocols. The WiFi Alliance is responsible for interoperability testing. The FCC, ETSI, and TELE are responsible for radio frequency and transmission power-level regulations and standards in the U.S., Europe, and Japan.
C. The IEEE is responsible for Layer 1 and Layer 2 protocols. The FCC, ETSI, and TELE are responsible for interoperability testing and compliance. The WiFi Alliance is responsible for radio frequency and transmission power-level regulations and standards on a global basis.
D. The IEEE and FCC are responsible for Layer 1 protocol support and frequency and power-level regulations in the United States. ETSI and TELE are responsible for frequency and power-level regulations in Europe and Japan. The WiFi Alliance is responsible for interoperability testing.

Correct Answer: B

Explanation/Reference:

Question 237
Which two wireless technologies can interfere with 802.11 networks?
Which two wireless technologies can interfere with 802.11 networks? (Choose two.)
A. DECT
B. ZigBee
C. WiMax
D. GSM

Correct Answer: AB

Explanation/Reference:

Question 238
What technology consists of small, low-power digital radios?
What technology consists of small, low-power digital radios?
A. LTE
B. WiFi
C. ZigBee
D. Bluetooth

Correct Answer: C

Explanation/Reference:

Question 239
What does RF determine?
What does RF determine?
A. cycle pattern size
B. how often a wave occurs
C. signal size
D. quantity of energy injected in a signal

Correct Answer: B

Explanation/Reference:

Question 240
Which two statements about beacon frames used by access points are true?
Which two statements about beacon frames used by access points are true? (Choose two.)
A. They contain SSIDs if this feature is enabled.
B. They provide vendor proprietary information.
C. They are another name for an associated request.
D. They are sent in response to a probe frame.
E. They include ATIM window information for power save operations.

Correct Answer: AB
Explanation/Reference:

**Question 241**
Which statement describes spread spectrum technology in wireless communications?
Which statement describes spread spectrum technology in wireless communications?
A. Signal is spread across optical pulses.
B. Signal is spread across variations of amplitudes.
C. Signal is spread across one frequency.
D. Signal is spread across a whole band of frequencies.

Correct Answer: D
Explanation/Reference:

**Question 242**
Which two items change?
During Layer 2 intercontroller roaming, which two items change? (Choose two.)
A. SSID
B. VLAN
C. IP address
D. AP
E. controller

Correct Answer: DE
Explanation/Reference:

**Question 243**
Which statement about ZigBee technology is true?
Which statement about ZigBee technology is true?
A. It has low power consumption.
B. It is designed only for point-to-point communications.
C. It ranges up to 250 meters.
D. It supports data rates up to 1 and 2 Mb/s.

Correct Answer: A
Explanation/Reference:

**Question 244**
Which interface is considered a dynamic interface?
Which interface is considered a dynamic interface?
A. the virtual interface
B. the AP manager interface
C. the LAG interface
D. the management interface
E. the service port interface
F. a WLAN client data interface

Correct Answer: F
Explanation/Reference:

**Question 245**
DRAG DROP – (Topic 1)
Refer to the exhibit. Drag the steps for Open Authentication from the left and drop them in the correct order on the right.

- Client sends probe request.
- Enter Access Point B or Access Point B sends probe response, client
- Client sends association request to selected Access Point A
- Access point confirms authentication and registers client.
- Access point A confirms association and registers client.
Question 246
What is the IEEE name for a group of access points that are connected by using the Ethernet?
A. ESS
B. BSS
C. IBSS
D. ISS
Correct Answer: A
Explanation/Reference:

Question 247
Which two algorithms are available in RRM?
Which two algorithms are available in RRM? (Choose two.)
A. coverage-hole detection
B. dynamic channel assignment
C. RSSI normalizer
D. transmitting channel expander
E. rogue detection
Correct Answer: AB
Explanation/Reference:

Question 248
Which two conclusions can be interpreted from these frames?
The network administrator receives complaints of slow wireless network performance and performs a sniffer trace of the wireless network in preparation for migration to 802.11n. The sample capture shows frames that contains AP beacons with NonERP_Present bit set to 1 and frames with RTS/CTS.
Which two conclusions can be interpreted from these frames? (Choose two.)
A. The network is performing slowly because 802.11n clients are already mixed with 802.11g clients.
B. The network is performing slowly because 802.11b clients still exist in the network.
C. The network is performing slowly because a wireless client is incorrectly configured, which results in RF interference.
D. Possible 802.11b wireless clients are located only in the AP cell radius where the sniffer capture was performed.
E. Possible 802.11b wireless clients could be located anywhere in the wireless network.
Correct Answer: BE
Explanation/Reference:

Question 249
What is the dBi value?
If an antenna has a dBi of 8.6, what is the dBi value?
A. 6.2
B. 6.46
C. 8.6
D. 10.74
E. 12.88
Correct Answer: D
Explanation/Reference:

Correct Answer: A

Explanation/Reference:

Question 251
What is the equivalent of 26 dBm in milliwatts?

A. 4 mW
B. 40 mW
C. 100 mW
D. 400 mW
E. 1000 mW
Correct Answer: D
Explanation/Reference:

Question 252
Which governing body analyzes the applications and environments in which wireless networks are used?
A. EIRP  
B. ETSI  
C. FCC  
D. IEEE  
E. WiFi Alliance

Correct Answer: D
Explanation/Reference:

Question 253
Which type of frames are ACK and CF-ACK?
A. control  
B. management  
C. RTS/CTS  
D. association

Correct Answer: A
Explanation/Reference: