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NEW QUESTION: 1

When a STA has authenticated to an AP (AP-1), but still maintains a connection with another AP (AP-2), what is the state of the STA on AP-1?

- A. Authenticated and Associated
- B. Unauthenticated and Unassociated
- C. Transitional
- D. Authenticated and Unassociated

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 2

XYZ Company has decided to install an 802.11 WLAN system that will support 1000 wireless users, but they are concerned about network security. XYZ is interested in deploying standardized security features. In addition to WPA2-Enterprise with PEAP and role-based access control, XYZ would like to support management frame protection as well as a fast secure roaming protocol for future mobile handsets.

As XYZ Company selects a product to deploy, what two IEEE amendments, which are included in

802.11- 2016, should be supported to provide the management frame protection and fast secure roaming security features?

- A. 802.11r and 802.11k
- B. 802.11j and 802.11k
- C. 802.11z and 802.11w
- D. 802.11r and 802.11w

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 3

An 802.11 WLAN transmitter that emits a 50 mW signal is connected to a cable with 3 dB of loss.

The cable is connected to an antenna with 16 dBi of gain.

What is the EIRP power output?

- A. 1000 mW
- B. 2 W
- C. 250 mW
- D. 500 mW

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 4

A non-802.11 device is suspected of causing interference on the WLAN. You are not certain of the location or type of device. What is the best solution for locating this non-802.11 device?

- A. Laptop-based spectrum analyzer with a directional antenna
- B. Access point spectrum analyzer
- C. Laptop-based spectrum analyzer with an omni-directional antenna
- D. Laptop-based protocol analyzer with an omni-directional antenna

Answer: (SHOW ANSWER)

NEW QUESTION: 5

You are implementing a multi-AP WLAN and fast secure roaming is essential.

Which one of the following methods is an IEEE 802.11 standard method for fast roaming?

- A. Band Steering
- B. FT
- C. OKC
- D. Load balancing

Answer: B ([LEAVE A REPLY](#))

https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-1/Enterprise-Mobility-8-1-DesignGuide/Enterprise_Mobility_8-1_Deployment_Guide/Chapter-11.pdf

NEW QUESTION: 6

A WLAN transmitter that emits a 50 mW signal is connected to a cable with 3 dB loss.

If the cable is connected to an antenna with 9 dBi gain, what is the EIRP at the antenna element?

- A. 26 dBm
- B. 23 dBm
- C. 10 dBm
- D. 13 dBm

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 7

A standard PoE injector is used to power an access point requiring 802.3at. CAT6 cabling is in use. What is the maximum distance supported between the access point and the Ethernet switch with the use of a midspan power injector?

- A. 328 meters
- B. 300 meters
- C. 100 meters
- D. 200 meters

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 8

What is always required to establish a high quality 2.4 GHz RF link at a distance of 3 miles (5 kilometers)?

- A. Accurate Earth Bulge calculations
- B. Minimum output power level of 2 W
- C. Grid antennas at each endpoint
- D. A minimum antenna gain of 11 dBi at both endpoints
- E. A Fresnel Zone that is at least 60% clear of obstructions

Answer: E ([LEAVE A REPLY](#))

NEW QUESTION: 9

You are evaluating a connection that states the data rate is 150 Mbps. What is the expected throughput of this connection?

- A. 150 Mbps because the data rate is equal to the throughput
- B. 54 Mbps because that is the actual maximum throughput of an 802.11 connection
- C. More than 150 Mbps because of compression
- D. Less than 150 Mbps because of 802.11 overhead and contention

Answer: ([SHOW ANSWER](#)**)**

NEW QUESTION: 10

What information is transmitted in the Beacon management frames of an HT access point to communicate about backward compatibility with ERP and HR/DSSS stations? (Choose 2)

- A. HT Protection mode
- B. Non-ERP Present field
- C. Secondary channel offset
- D. RIFS mode
- E. Power save mode of clients

Answer: ([SHOW ANSWER](#)**)**

4. RIFS Mode (1 bit)

Indicates whether the use of reduced interframe space is permitted within the BSS. RIFS can be used only when a HT Greenfield network is in place.

0 - RIFS is prohibited

1- RIFS is permitted

5. HT Protection

Indicates protection requirements of HT transmissions.

0 - no protection mode (Green Field mode)

1 - nonmember protection mode

2 - 20 MHz protection mode

3- non-HT mixed mode

<https://mrncciew.com/2014/11/04/cwap-ht-operations-ie/>

NEW QUESTION: 11

What statement about the IEEE 802.11e QoS facility is true?

A. 802.11 QoS is achieved by giving high priority queues a statistical advantage at winning contention.

B. Four 802.1p user priorities are mapped to eight 802.11 transmit queues.

C. When the Voice queue has frames awaiting transmission, no data will be transmitted from the Best Effort queue.

D. 802.11 control frames are assigned to the 802.11 EF priority queue.

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 12

Which one of the following channels can be used for VHT transmissions?

A. 48

B. 11

C. 1

D. 6

Answer: ([SHOW ANSWER](#)**)**

NEW QUESTION: 13

A WLAN is implemented using wireless controllers. The APs must locate the controllers when powered on and connected to the network. Which one of the following methods is commonly used to locate the controllers by the APs?

A. DHCP

B. NTP

C. GRE

D. SNMP

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 14

When using a spectrum to look for non Wi-Fi interference sources, you notice significant interference across the entire 2.4 GHz band (not on a few select frequencies) within the desktop area of a users workspace, but the interference disappears quickly after just 2 meters. What is the most likely cause of this interference?

- A. USB 3 devices in the user's work area
- B. Unintentional radiation from the PC power supply
- C. Bluetooth devices in the user's work area
- D. Excess RF energy from a nearby AP

Answer: [\(SHOW ANSWER\)](#)

NEW QUESTION: 15

ABC Company has just purchased a 6 dBi patch antenna. After performing some tests with the 6 dBi antenna, they have concluded that more antenna gain is needed to cover their outdoor courtyard. When choosing an antenna with higher gain, what other antenna characteristic will also always change?

- A. Fresnel Zone size
- B. Impedance
- C. Maximum input power
- D. VSWR Ratio
- E. Beamwidth

Answer: E ([LEAVE A REPLY](#))

NEW QUESTION: 16

You are being interviewed by ABC Company for employment as a wireless site survey expert.

The interviewing manager asks you what items should be included in a site survey report generated as part of a manual site survey process.

What answer would be accurate?

- A. RF heat map illustrating coverage and signal quality for each frequency band
- B. Documentation proving proper entry of wall material types into the site survey software
- C. Itemized list of equipment, licenses, and support contracts required for the facility
- D. Documentation noting how each WLAN user group will authenticate to the network

Answer: A ([LEAVE A REPLY](#))

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NEW QUESTION: 17

Your consulting firm has recently been hired to complete a site survey for a company. Your engineers use predictive design software for the task, but the company insists on a pre-deployment site visit. What task should be performed as part of the pre-deployment visit to prepare for a predictive design?

- A. Install at least one AP on each side of the exterior walls to test for co-channel interference through these walls
- B. Collect information about the company's security requirements and the current configuration of their RADIUS and user database servers
- C. Test several antenna types connected to the intended Aps for use in the eventual deployment
- D. Evaluate the building materials at ABC's facility and confirm that the floor plan documents are consistent with the actual building

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 18

You are troubleshooting an issue reported by several wireless user. The problem is contained to one cell (several users connected to the same AP. You manage the WLAN and no other network devices. After analysis it appear to be a switch problem. What action should be taken?

- A. Escalate the problem to the wireless vendor support staff
- B. Escalate the problems to the network administration
- C. Create a plan of action and implement it
- D. Document the results and close the case

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 19

To ease user complexity, your company has implemented a single SSID for all employees. However, the network administrator needs a way to control the network resources that can be accessed by each employee based on their department.

What WLAN feature would allow the network administrator to accomplish this task?

- A. WPA2
- B. IPSec
- C. SNMP
- D. VRRP
- E. WIPS
- F. RBAC

Answer: F ([LEAVE A REPLY](#))

NEW QUESTION: 20

In an 802.11n WLAN with a heterogeneous set of associated client devices including 802.11b,

11g, and 11n, what HT protection mode will the BSS use?

- A. Mode 3: Non-HT mixed mode
- B. Mode 1: Nonmember protection mode
- C. Mode 0: No protection mode (Greenfield)
- D. Mode 2: 20 MHz protection mode

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 21

What ID is typically mapped to an AP's MAC address if a single BSS is implemented?

- A. Device ID
- B. SSID
- C. VLAN ID
- D. BSSID

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 22

You are onsite with a client to perform a post-deployment site survey. When verifying a multiple channel VoWiFi deployment using a VoWiFi handset, which aspect is most important?

- A. Verifying the VHT functionality to handle the call volume incurred by a single VoIP phone call.
- B. Configuring DSCP-to-802.11e QoS maps on the handset for each access category.
- C. Performing protocol analysis with a single wireless adapter that is scanning all channels in use
- D. Testing a constant conversation or handset tone while roaming from area to area, or performing an active survey

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 23

You are selecting antennas for a WLAN operating in the 5 GHz frequency band. What specifications should be evaluated for an antenna before it is implemented in this WLAN system?

- A. 802.11ad compatibility
- B. Impedance in Ohms
- C. TPC support
- D. Return Loss Rating

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 24

Which one of the following frequency ranges is not specified for use by IEEE 802.11 radios as of 802.11-2012?

- A. 5.725-5.874 GHz
- B. 2.4000-2.4835 MHz
- C. 5.15-5.25 GHz
- D. 600-630 MHz

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 25

When using an RF splitter to connect one transceiver to sector antennas loss is incurred. What is this loss called?

- A. Through loss
- B. Intentional loss
- C. Active loss
- D. Conversion loss

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 26

What is always required to establish a high quality 2.4 GHz RF link at a distance of 3 miles (5 kilometers)?

- A. Minimum output power level of 2 watts
- B. A Fresnel Zone that is at least 60% clear of obstructions
- C. Grid antennas at each endpoint
- D. A minimum antenna gain of 11 dBi at both endpoints

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 27

You are deploying a WLAN with the access points configured for 10 mW of output power on the

2.4 GHz radios and 20 mW of output power on the 5 GHz radios. Some semi- directional antennas are also in use. What kind of deployment is described?

- A. SOHO
- B. Residential
- C. High density
- D. Standard office

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 28

Your consulting firm has recently been hired to complete a site survey for a company. Your engineers use predictive modeling software for surveying, but the company insists on a pre-deployment site visit.

What task should be performed as part of the pre-deployment visit to prepare for a predictive survey?

- A.** Evaluate the building materials at ABC's facility and confirm that the floor plan documents are consistent with the actual building.
- B.** Collect information about the company's security requirements and the current configuration of their RADIUS and user database servers.
- C.** Install at least one AP on each side of the exterior walls to test for co-channel interference through these walls.
- D.** Test several antenna types connected to the intended APs for use in the eventual deployment.

Answer: [\(SHOW ANSWER\)](#)

NEW QUESTION: 29

What term correctly completes the following sentence?

802.11a/b/g used a mandatory 800ns guard interval. 802.11n introduced an optional short 400ns guard interval. Guard intervals (GI) are necessary in OFDM to reduce the likelihood of interference between two consecutive _____.

- A.** Packets
- B.** Bits
- C.** Bytes
- D.** Segments
- E.** Symbols
- F.** Frames

Answer: **E** [\(LEAVE A REPLY\)](#)

NEW QUESTION: 30

What is a channel mode specified by the 802.11n (High Throughput) PHY?

- A.** 80 MHz
- B.** 20/40 MHz
- C.** Frequency Hopping
- D.** 22 MHz

Answer: **B** [\(LEAVE A REPLY\)](#)

NEW QUESTION: 31

What factor is likely to cause the least impact on the application layer throughput of an 802.11n client station in a 2.4 GHz HT BSS?

- A.** Increasing or decreasing the number of spatial streams in use by the client station and AP

- B. Implementation of several other clients in the same BSS using 802.11g radios.
- C. Implementation Fast BSS Transition (FT) for roaming
- D. RF interference from more than 10 nearby Bluetooth transmitters

Answer: ([SHOW ANSWER](#))

<https://www.networkcomputing.com/wireless-infrastructure/wifi-fast-roaming-simplified>

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NEW QUESTION: 32

As XYZ Company's wireless specialist, you have been asked to troubleshoot some unexpected frame patterns in a wireless protocol capture. Your peers explain that the network's beacon frames are inconsistent. That is, the BSSID is the same for all beacons, but the source address varies between three different addresses.

What network configuration would cause this beacon frame behavior?

- A. A virtual cell single channel network has been implemented
- B. The beacons are from an IBSS instead of a BSS
- C. Three APs still share the same default configuration.
- D. A single AP supports multiple BSSs with different SSIDs

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 33

In which plane of the three networking planes is an access point configured by a WLAN controlled?

- A. Management
- B. Security
- C. Data
- D. Control

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 34

Three access points are used within a facility. One access point is on channel 11 and the other two are on channel 1. The two access points using channel 1 are on either side of the access point using channel 11 and sufficiently apart so that they do not interfere each

other when they transmit frames. Assuming no other Aps are in the vicinity, is CCI still a possibility in this network and why?

- A. Yes, because the client devices connected to one of the channel 1 APs will transmit frames that reach the other channel 1 AP as well as
- B. No, because the Aps are far enough apart that no CCI will occur
- C. No, because CCI only occurs in the 5 GHz frequency band
- D. Yes, because channel 11 loops around and causes CCI with channel 1

Answer: A (LEAVE A REPLY)

NEW QUESTION: 35

A company has hired you to perform a pre-deployment site survey of their facility. During an interview, the network manager informs you that the new wireless network must use 5 GHz bands and OFDM, and VoWiFi handsets will be used extensively over the wireless network.

What items do you need to include in the RF site survey report? (Choose 2)

- A. Results of OFDM versus ERP performance in each BSA
- B. Security parameters and configuration steps for VoWiFi handsets.
- C. Codec types and sampling rates for each VoWiFi phone
- D. A heat map demonstrating signal quality in areas where VoWiFi is supported.
- E. Test results from an active survey with a VoWiFi handset

Answer: D,E (LEAVE A REPLY)

NEW QUESTION: 36

You are managing a wireless access point in autonomous mode using the Web based interface.

You capture traffic during this management task and notice that you can see the HTML code of the Web pages used for access point management. What error in administration could be the cause of this security concern?

- A. A VPN with the AP is not established
- B. WPA2 is disabled on the WLAN
- C. IPSec is not in use for the management connection as recommended
- D. HTTP is in use instead of HTTPS

Answer: D (LEAVE A REPLY)

NEW QUESTION: 37

As an RF wave propagates through space, the wave front experiences natural expansion that reduces its signal strength in an area. What term describes the rate at which this expansion happens?

- A. Inverse square law
- B. Fresnel zone thinning
- C. MU-MIMO

D. Ohm's law

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 38

What factor will have the most significant impact on the amount of wireless throughput available to each station within a BSS?

- A. The number of client stations associated to the BSS
- B. The presence of co-located (10m away) access points on non-overlapping channels
- C. The power management settings in the access point beacons
- D. The Layer 3 protocol used by each station to transmit data over the wireless link

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 39

In addition to coverage analysis results, what should be included in a post-deployment site survey report to ensure WLAN users experience acceptable performance?

- A. Application Layer protocol availability analysis results
- B. WAN interface analysts results
- C. Capacity analysis results
- D. Layer 4 protocol availability analysis results

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 40

Which unit of measurement is an absolute unit that is used to quantify received signal power levels on a logarithmic scale?

- A. RSSI
- B. dBm
- C. VSWR
- D. SNR

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 41

The center frequency of channel 1 in the 2.4 GHz band is 2.412 GHz (2412 MHz).

What is the center frequency of channel 4?

- A. 2.422 GHz
- B. 2.417 GHz
- C. 2.413 GHz
- D. 2.427 GHz

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 42

What statement about 802.11 WLAN performance is true?

- A. WLANs perform better as more wireless clients connect with each AP
- B. To get the best performance out of an AP, you should disable data rates of 72 Mbps and lower
- C. In modern networks, both centralized and distributed data forwarding work well for most standard office deployments
- D. In most WLANs, no special skill or tuning is required to get peak performance

Answer: [\(SHOW ANSWER\)](#)

NEW QUESTION: 43

You are evaluating access points for use in the 5GHz frequency band.

What PHY supports this band and supports 80 MHz channels?

- A. VHT
- B. OFDM
- C. HT
- D. ERP

Answer: A [\(LEAVE A REPLY\)](#)

NEW QUESTION: 44

Two co-located 802.11b/g/n APs can interfere with one another and cause contention and collisions, even when the two APs are operating on non-overlapping channels (e.g. 1 & 6).

What deployment flaw could cause this problem?

- A. A client station is using active scanning to probe for access points on multiple channels.
- B. The access points are mounted too closely to one another.
- C. The access points are not synchronized to the same NTP server.
- D. Reflective objects in the area are causing significant multipath.

Answer: B [\(LEAVE A REPLY\)](#)

NEW QUESTION: 45

You are using a tool that allows you to see signal strength for all APs in the area with a visual representation. It shows you SSIDs available and the security settings for each SSID. It allows you to filter by frequency band to see only 2.4 GHz networks or only 5 GHz networks. No additional features are available. What kind of application is described?

- A. WLAN discovery tool
- B. Site survey utility
- C. Spectrum analyzer
- D. Protocol analyzer

Answer: A [\(LEAVE A REPLY\)](#)

NEW QUESTION: 46

Users and Network support personnel at a mid-sized equipment manufacturer have been discussing the potential uses and benefits of implementing an indoor WLAN. The network

administrator and network manager have requested a meeting of senior management personnel to discuss a WLAN implementation before performing a site survey or taking any implementation steps. The first topic of discussion in the meeting is the corporate policy concerning implementation and use of WLAN technology.

What specific topics are appropriate in this policy meeting? (Choose 2)

- A. Business justification
- B. Defining RF channels for use
- C. Antenna types
- D. User productivity impact
- E. Use of the latest 802.11ac equipment

Answer: A,D (LEAVE A REPLY)

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NEW QUESTION: 47

What fact is true regarding controllers and Aps in a split-MAC architecture?

- A. An IP tunnel is established between the AP and controller for AP management and control functions
- B. Using centralized data forwarding, frames leaving the Aps are never tagged Ethernet frames with VLAN identifiers
- C. With 802.1X/EAP security, the AP acts as the supplicant and the controller acts as the authenticator
- D. Management and data frames must be processed locally by the AP, while control frames are sent to the controller

Answer: A (LEAVE A REPLY)

NEW QUESTION: 48

The IEEE 802.11-2016 standard requires VHT capable devices to be backward compatible with devices using which other 802.11 physical layer specification (PHY)?

- A. ERP-PBCC
- B. DSSS
- C. HR/DSSS
- D. OFDM

Answer: D (LEAVE A REPLY)

NEW QUESTION: 49

The BSA of an AP covers the area used by the sales and marketing department. Thirty-five stations operate in this space. The user indicate that they need more throughput and all stations are 5 GHz capable 802.11ac clients. The current AP configuration uses 20 MHz channels in both

2.4 GHz and 5 GHz. What is the least expensive solution available for increasing throughput for these users without implementing configuration options that are not recommended?

- A. Use a 40 MHz channel on the 5 GHz radio
- B. Use a 160 MHz channel on the 5 GHz radio
- C. Install a second AP in the coverage area
- D. Use a 40 MHz channel on the 2.4 GHz radio.

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 50

What standard is referenced into the 802.11-2012 specification and is recommend for robust WLAN client security?

- A. WEP
- B. SSID hiding
- C. 802.1X/EAP
- D. IPSec VPN

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 51

Which one of the following is not a factor considered when calculating the Link Budget for an outdoor point-to- point WLAN bridge link?

- A. Transmit power
- B. Receive antenna gain
- C. Operating frequency
- D. MU-MIMO capabilities of the bridges

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 52

You are reporting on the RF environment in you facility. The manager asks you do describe the noise floor noted in the report. Which of the following is the best explanation?

- A. The RF energy that exists in the environment from intentional and unintentional RF radiators that forms the baseline above which the intentional signal of your WLAN must exist.
- B. The energy radiated by flooring materials that causes interference in the 2.4 GHz and 5 GHz bands.

- C. The noise caused elevators, microwave ovens, and video transmitters.
- D. The extra energy radiated by access points and client devices beyond that intended for the signal.

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 53

What feature(s) are most likely to be supported by 802.11 enterprise-class WLAN controllers?

(Choose 4)

- A. 802.1p and DSCP QoS
- B. Captive web portals
- C. BGP and Frame Relay
- D. Link aggregation / port trunking
- E. IGMP snooping

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 54

You are using a tool that allows you to see signal strength for all Aps in the area with a visual representation. It shows you SSIDs available and the security settings for each SSID. It allows you to filter by frequency band to see only 2.4 GHz networks or only 5 GHz networks. No additional features are available.

What kind of application is described?

- A. WLAN scanner tool
- B. Site survey utility
- C. Protocol analyzer
- D. Spectrum analyzer

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 55

Which IEEE 802.11 physical layer (PHY) specifications include support for and compatibility with both ERP and HR/DSSS?

- A. OFDM (802.11a)
- B. HT (802.11n)
- C. VHT (802.11ac)
- D. DSSS (802.11-Prime)

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 56

Prior to association, what parameter can 802.11 client devices measure and use to select the optimal access point for association?

- A. Proximity to potential access points

- B. Retry rate of probe request and response frames
- C. Signal strength of access point beacons received
- D. Average round trip time to reach the Internet DNS server
- E. Average round trip time to reach the IP router

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 57

What security method is commonly used for VoIP handsets when the infrastructure does not support OKC or FT roaming?

- A. WPA2-Enterprise with PEAP
- B. WPA2 -Personal
- C. WPA2-Enterprise with EAP-TLS
- D. WPA2-Enterprise with EAP-TTLS

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 58

ABC Company is planning a point-to-multipoint outdoor bridge deployment with standalone (autonomous) 802.11 bridge units. 802.1X/EAP will be used for bridge authentication. A Linux-based RADIUS server will be used for authentication. What device in the bridge Implementation as the 802.1X Authenticator?

- A. The Ethernet switch
- B. All non-root bridges
- C. The RADIUS server
- D. The root bridge

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 59

A standard PoE injector is use to power an access point requiring 802.3at. CAT6 cabling is in use. What is the maximum distance supported between the access point and the Ethernet switch with the use of a midspan power injector?

- A. 300 meters
- B. 200 meters
- C. 328 meters
- D. 100 meters

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 60

What term correctly completes the following sentence?

In an IEEE 802.11 frame, the IP packet is considered by the MAC layer to be a(n)

- _____.
- A. PLCP Protocol Data Unit (PPDU)

- B. MAC Protocol Data Unit (MPDU)
- C. PLCP Service Data Unit (PSDU)
- D. MAC Service Data Unit (MSDU)
- E. IP datagram

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 61

ABC Company is planning to install a new 802.11ac WLAN, but wants to upgrade its wired infrastructure first to provide the best user experience possible. ABC Company has hired you to perform the RF site survey. During the interview with the network manager, you are told that the new Ethernet edge switches will support VoIP phones and 802.11 access points, both using 802.3 PoE.

After hearing this information, what immediate concerns do you note?

- A. The power budget in the edge switches must be carefully planned and monitored based on the number of supported PoE devices.
- B. VoIP phones and 802.11 access points should not be powered by the same edge switch due to distortion.
- C. The edge Ethernet switches should support Ether-channel to get the best results out of the network.
- D. If the switches are in optimal locations for VoIP phones, they are likely to be suboptimal locations for 802.11 APs

Answer: A ([LEAVE A REPLY](#))

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NEW QUESTION: 62

When antenna gain is reported in dBI, the gain of the antenna is compared to what theoretical antenna?

- A. Yagi
- B. Dipole
- C. Rubber ducky
- D. Isotropic radiator

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 63

You are troubleshooting a WLAN problem and you suspect hidden node as the cause. What should you look for in a protocol analyzers?

- A. Frames with the retry bit set to 0
- B. Frames with the HN bit set to 1
- C. Frames transmitted from the AP without acknowledgement
- D. Retransmitted frames from multiple STAs at higher rates than other STAs

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 64

What feature was introduced in the 802.11h amendment in order to uphold regulatory requirements for 5 GHz operations.

- A. Distributed Coordination Function (DCF)
- B. Radio Resource Management (RRM)
- C. Transmit Power Control (TPC)
- D. 256-QAM

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 65

What is the most effective method for testing roaming in relation to 802.11 VoIP handsets?

- A. Use a protocol analyzer to capture the traffic generated when a laptop roams
- B. Use a spectrum analyzer to monitor RF activity during a VoIP call
- C. Place a call with the handset and move around the facility to test quality during roaming
- D. Use the built-in roaming monitor built into all VoIP handsets

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 66

What security solution is deprecated in the 802.11 standard and should never be used in any modern WLAN deployment?

- A. CCMP
- B. Open System Authentication
- C. Shared Key Authentication
- D. AES

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 67

You have been tasked with creating a wireless link between two buildings on a single campus.

The link must support at least 150 Mbps data rates.

What kind of WLAN technology role should you deploy?

- A. IBSS
- B. WPAN
- C. Access BSS
- D. Wireless bridging

Answer: D (LEAVE A REPLY)

<https://docs.netgate.com/pfsense/en/latest/wireless/bridges.html>

<https://www.lifewire.com/wireless-bridging-explained-816563>

NEW QUESTION: 68

When compared with legacy Power Save mode, how does VHT TXOP power save improve battery life for devices on a WLAN?

- A. VHT TXOP power save allows stations to enter sleep mode and legacy Power Save does not.
- B. VHT TXOP power save uses the partial AID in the preamble to allow clients to identify frames targeted for them.
- C. Legacy Power Save mode was removed in the 802.11ac amendment.
- D. VHT TXOP power save allows the WLAN transceiver to disable more components when in a low powerstate.

Answer: B (LEAVE A REPLY)

Until the end of the current TXOP, the client may enter the doze state under specific conditions, using some information such as the RXVECTOR parameter PARTIAL_AID (a TXOP SU PPDU that is addressed to another client, but not that client) or the RXVECTOR parameter GROUP_ID for MU-MIMO (a VHT MU PPDU that is not intended to that client).

<https://dot11zen.blogspot.com/2018/02/80211-power-management-with-packet.html>

NEW QUESTION: 69

Lynne runs a small hotel, and as a value added service for her customers she has implemented a Wi-Fi hot-spot. Lynne has read news articles about how hackers wait at hot-spots trying to take advantage of unsuspecting users. She wants to avoid this problem at her hotel.

What is an efficient and practical step that Lynne can take to decrease the likelihood of active attacks on her customers' wireless computers?

- A. Implement Network Access Control (NAC) and require antivirus and firewall software along with OS patches.
- B. Enable station-to-station traffic blocking by the access points in the hotel.
- C. Require EAP-FAST authentication and provide customers with a username/password on their receipt.
- D. Implement an SSL VPN in the WLAN controller that initiates after HTTPS login.

Answer: C (LEAVE A REPLY)

NEW QUESTION: 70

A client STA must choose the best AP for connectivity. As part of the evaluation, it must verify compatible data rates. What can the client STA use to verify that an AP supports the same data rates that it supports?

- A. Beacon frames transmitted by the AP
- B. Data frames sent between the AP and current client STAs
- C. Authentication frames transmitted by the other client STAs
- D. Probe request frames transmitted by other client STAs

Answer: (SHOW ANSWER)

<https://supportforums.cisco.com/t5/wireless-mobility-documents/802-11-sniffer-capture-analysis-management-frames-and-open-auth/ta-p/3120622>

NEW QUESTION: 71

You are planning for PoE in a standard office deployment. Which one of these devices is least likely to be a PoE PD?

- A. Access point
- B. VoIP phone
- C. Ethernet switch
- D. Video camera

Answer: C (LEAVE A REPLY)

NEW QUESTION: 72

In a mesh BSS (MBSS), according to the 802.11-2016 standard, what device connect the mesh to an Ethernet network?

- A. Mesh Gate
- B. Mesh Switch
- C. Mesh Router
- D. Mesh Portal

Answer: D (LEAVE A REPLY)

The function of an AP that performs this translation between the wireless network and the wired network (as with M and P) is called the portal. The portal is a function. It is just the logical point where wireless MSDUs are translated to and from a non-802.11 network (802.11-2007, def 3.39 and 3.110). An AP commonly performs the portal function. M, and P are APs and portals.

https://www.cwnp.com/uploads/802-11s_mesh_networking_v1-0.pdf

<https://s2.smu.edu/~camp/pubs/mesh80211s.pdf>

NEW QUESTION: 73

A dual-band 802-11ac AP must be powered by PoE. As a class 4 device, what power level should be received at the AP?

- A. 30 W

- B. 25.5W
- C. 15.4 W
- D. 12.95 W

Answer: B (LEAVE A REPLY)

Similar to a PoE network switch, the PoE plus switch also supplies power over two pairs, but it adds an additional power class that is able to deliver power up to 25.5W for a PD with a voltage range from 42.5V to 57V. The max power delivered by each port of a PoE+ switch is 30W, along with a voltage range from 50V to 57V.

<https://community.fs.com/blog/poe-switch-types.html>

https://en.wikipedia.org/wiki/Power_over_Ethernet#:~:text=Class%204%20can%20only%20be%20used%20by%20IEEE,0%20device.%20Configuration%20via%20Ethernet%20layer%202%20LLDP

NEW QUESTION: 74

What are two channel modes specified by the 802.11n (High Throughput) PHY? (Choose 2)

- A. 40/80 MHz
- B. 160 MHz
- C. 80 MHz
- D. 20 MHz
- E. 20/40 MHz
- F. 22 MHz

Answer: D,E (LEAVE A REPLY)

NEW QUESTION: 75

In a long-distance RF link, what statement about Fade Margin is true?

- A. The Fade Margin of a long-distance radio link should be equivalent to the receiver's antenna gain.
- B. The Fade Margin is a measurement of signal loss through free space, and is a function of frequency and distance.
- C. Fade Margin is an additional pad of signal strength designed into the RF system to compensate for unpredictable signal fading.
- D. A Fade Margin is unnecessary on a long-distance RF link if more than 80% of the first Fresnel zone is clear of obstructions.

Answer: C (LEAVE A REPLY)

NEW QUESTION: 76

As you prepare for a site survey in a multi-floor corporate office, you have learned about several wireless devices that support connection-oriented, real-time applications. These

applications are sensitive to service interruptions and require excellent signal quality, low latency, and low loss.

For that reason, it is important to identify sources of RF interference as well as building characteristics that would cause RF blockage or dead spots.

What systems or environmental characteristics are most likely to cause interference or RF blockage and disrupt service for these applications? (Choose 2)

- A. Workspace dividers
- B. RFID chokepoints
- C. Microwave ovens
- D. Narrow hallways
- E. Elevator shafts

Answer: C,E (LEAVE A REPLY)

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NEW QUESTION: 77

You are deploying a WLAN monitoring solution that utilizes distributed sensor devices. Where should sensors be deployed for best results? Choose the single best answer.

- A. Closer to the APs
- B. Every 20 feet and alongside each AP
- C. IN critical areas where WLAN performance must be high
- D. Closer to the client devices

Answer: D (LEAVE A REPLY)

NEW QUESTION: 78

What non-standard WLAN solution attempts to give a longer transmission windows to devices with higher data rates then devise with lower data rates?

- A. AirTime Fairness
- B. ARM
- C. Band Steering
- D. RRM

Answer: A (LEAVE A REPLY)

NEW QUESTION: 79

You recently purchased four laptops containing dual-band 802.11ac adapters. The laptops can connect to your 2.4 GHz network, but they cannot connect to the 5 GHz network. The laptops do not show the 5 GHz SSIDs, which are different than the 2.4 GHz SSIDs. Existing devices can connect to the 5 GHz SSIDs with no difficulty. What is the likely problem?

- A. Interference from no-Wi-Fi sources
- B. Faulty drivers
- C. DoS attack
- D. Interference from other WLANs

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 80

What 802.11 network configuration would result in multiple stations broadcasting Beacon frames with the same BSSID but with different source addresses?

- A. A single AP supports multiple BSSs with different SSIDs
- B. An SCA network is in use.
- C. Multiple Aps have been loaded with the same configuration from an image file.
- D. An IBSS is used instead of a BSS.

Answer: D ([LEAVE A REPLY](#))

Ad-Hoc Networks Do Not Have a MAC Address

Every BSS needs a BSSID, and using the access point's MAC address works fine most of the time.

However, an ad-hoc network, a network that forwards traffic from node to node, has no access point.

When a BSS does not have a physical access point, in an ad-hoc network for example, the network generates a 48-bit string of numbers that looks and functions just like a MAC address, and that BSSID goes in every packet.

https://www.juniper.net/documentation/en_US/junos-space-apps/networkdirector3.0/topics/concept/wireless-ssid-bssid-essid.html#jd0e46

<https://www.oreilly.com/library/view/80211-wireless-networks/0596100523/ch04.html>

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