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QUESTION 1

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 9dBi gain, what is the EIRP at the antenna element?

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

Correct Answer: A

QUESTION 2

You support a WLAN using dual-band 802.11ac three stream access points. All access points have both the 2.4 GHz and 5 GHz radios enabled and use 40 MHz channels in 2.4 GHz. A manager is concerned about the fact that each access point is connected using a 1 Gbps Ethernet link. He is concerned that the Ethernet link will not be able to handle the load from the wireless radios. What do you tell him?

- A. His concern is valid and the company should upgrade all Ethernet link to 10 Gbps immediately.
- B. His concern is valid and the company should immediately plan to run a second 1 Gbps Ethernet link to each AP.
- C. Due to 802.11 network operations and dynamic rates used by devices on the network, the two radios will likely not exceed the 1 Gbps Ethernet link .
- D. His concern is invalid because the AP will compress all data before transmitting it onto the Ethernet link.

Correct Answer: D

QUESTION 3

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

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

Correct Answer: A

QUESTION 4

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

Correct Answer: A

QUESTION 5

Your manager asked you to locate a solution that allows for centralized monitoring of WLAN performance over time. He wants a single pane of glass for administration and monitoring of the solution. What do you recommend?

- A. Laptop-based spectrum analyzers
- B. AP-based spectrum analysis
- C. Overlay WLAN monitoring solution
- D. Laptop-based protocol analyzers

Correct Answer: C

AP Spectrum analysis does not qualify as a centralized solution for WLAN performance. An overlay monitoring system should be the right answer.

QUESTION 6

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

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

Correct Answer: D

Reference <http://setup-wireless.blogspot.com/2008/11/wireless-hidden-node.html>

QUESTION 7

You are troubleshooting a client problem with a 2.4 GHz WLAN connection. The client is experiencing surprisingly low data rates during the work day. You analyze the workspace outside of business hours and detect a strong signal with a

typical noise floor at the client location. During working hours, the user works with a laptop in the area and uses an external USB hard drive for continuous data access. The user also states that the laptop works as expected on her home

network. The user working approximately 8 feet away from this client experiences no problems.

Based on this information, what is the likely cause of the problem?

- A. The AP is overloaded during the work day
- B. The drivers in the laptop are corrupt
- C. The laptop has a failing wireless adapter
- D. The external hard drive is USB 3.0 and is causing a significant increase in the noise floor when in use

Correct Answer: D

QUESTION 8

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

Correct Answer: D

Reference https://en.wikipedia.org/wiki/Antenna_gain

QUESTION 9

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

Correct Answer: D

Reference <http://setup-wireless.blogspot.com/2008/11/wireless-hidden-node.html>

QUESTION 10

What terms accurately complete the following sentence?

The IEEE 802.11-2016 standard specifies mandatory support of the _____ cipher suite for Robust Security Network Associations, and optional use of the _____ cipher suite, which is designed for use with pre-RSNA hardware and is deprecated.

- A. 802.1X/EAP, WEP
- B. CCMP, TKIP
- C. TLS, SSL
- D. RC5, RC4

Correct Answer: B

QUESTION 11

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

Correct Answer: A

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

QUESTION 12

You have received a report of poor wireless connections on the third floor of a building under your administration. Three individuals have reported the problem. Apparently, the connections are reporting a strong signal, but the users cannot access the Internet. With the problem identified, what is the next logical step in the troubleshooting process?

- A. Verify the solution
- B. Discover the scale of the problem
- C. Perform corrective actions
- D. Create a plan of action or escalate the problem

Correct Answer: B

QUESTION 13

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

Correct Answer: C

QUESTION 14

You are implementing a VHT-capable AP. Which one of the following channels is available in the 802.11- 2016 standard that was not available before the ratification of 802.11 ac?

- A. 153
- B. 161
- C. 144
- D. 56

Correct Answer: C

QUESTION 15

You are tasked with performing a throughput test on the WLAN. The manager asks that you use open source tools to reduce costs. What open source tool is designed to perform a throughput test?

- A. iPerf
- B. PuTTY
- C. IxChariot
- D. Python

Correct Answer: A
