640-722 Q&As

Implementing Cisco Unified Wireless Networking Essentials v2.0

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QUESTION 1

How many dBm is 40 mW?

A. 10 dBm

B. 16 dBm

C. 20 dBm

D. 22 dBm

E. 40 dBm

Correct Answer: B

The dB measures the power of a signal as a function of its ratio to another standardized value. The abbreviation dB is often combined with other abbreviations in order to represent the values that are compared. Here are two examples:

dBm - The dB value is compared to 1 mW.

dBw - The dB value is compared to 1 W.

You can calculate the power in dBs from this formula:

Power (in dB) = 10 * log10 (Signal/Reference)

This list defines the terms in the formula:

log10 is logarithm base 10.

Signal is the power of the signal (for example, 50 mW).

Reference is the reference power (for example, 1 mW).

Here is an example. If you want to calculate the power in dB of 50 mW, apply the formula in order to get:

Power (in dB) = 10 * log10 (50/1) = 10 * log10 (50) = 10 * 1.7 = 17 dBm

Because decibels are ratios that compare two power levels, you can use simple math in order to manipulate the ratios for the design and assembly of networks. For example, you can apply this basic rule in order to calculate logarithms of

large numbers:

log10 (A*B) = log10(A) + log10(B)

If you use the formula above, you can calculate the power of 50 mW in dBs in this way:

Power (in dB) = 10 * log10 (50) = 10 * log10 (5 * 10) = (10 * log10 (5)) + (10 * log10(10)) = 7 + 10 = 17 dBm

Reference: http://www.cisco.com/c/en/us/support/docs/wireless-mobility/wireless-lan-wlan/23231-powervalues-23231.html

QUESTION 2

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

Extensible Authentication Protocol, or EAP, is an authentication framework frequently used in wireless networks and point-to-point connections. EAP is an authentication framework providing for the transport and usage of keying material and parameters generated by EAP methods. There are many methods defined by RFCs and a number of vendor specific methods and new proposals exist. EAP is not a wire protocol; instead it only defines message formats. Each protocol that uses EAP defines a way to encapsulate EAP messages within that protocol\\'s messages.

Reference: http://en.wikipedia.org/wiki/Extensible_Authentication_Protocol.

QUESTION 3

Which Cisco AnyConnect module allows you to set the parameters that are needed to connect to the wireless network?

A. NAM

B. DART

C. posture

D. telemetry

Correct Answer: A

The main components used in IUWNE are the Cisco AnyConnect Mobility Client itself, associated with the Network Access Module (NAM) used to manage existing profiles and provide the wireless connectivity. You also can click Advanced to open the NAM front end. You can then manage profiles (create, delete, reorder). The network administrator can restrict the types of networks that the end user can manipulate on the NAM.

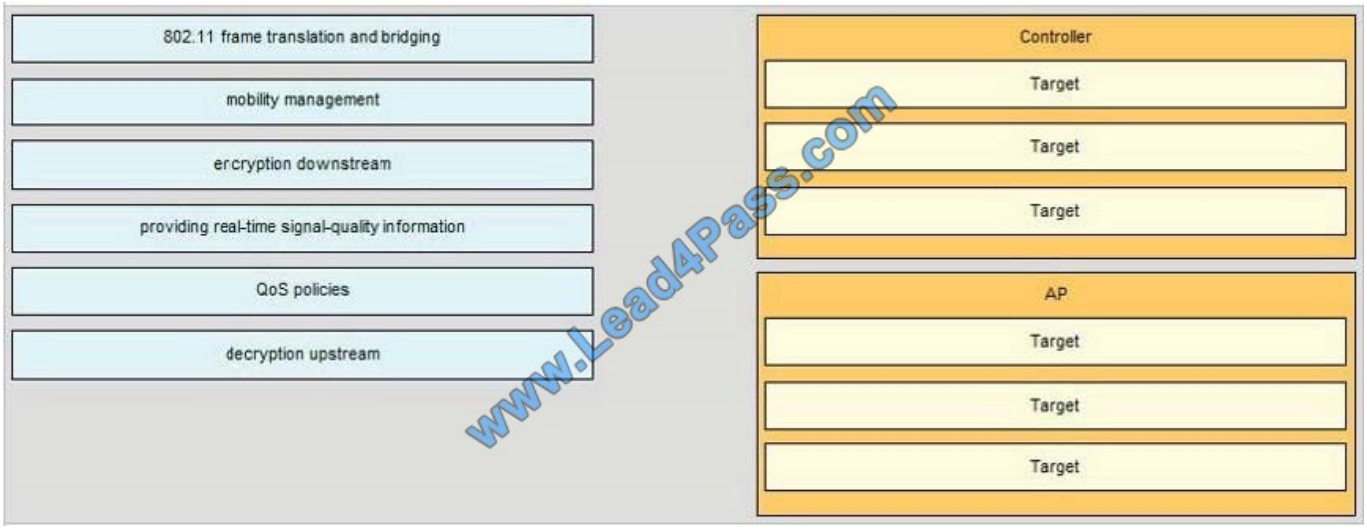
Reference: CCNA Wireless (640-722 IUWNE) Quick Reference Guide page 73

QUESTION 4

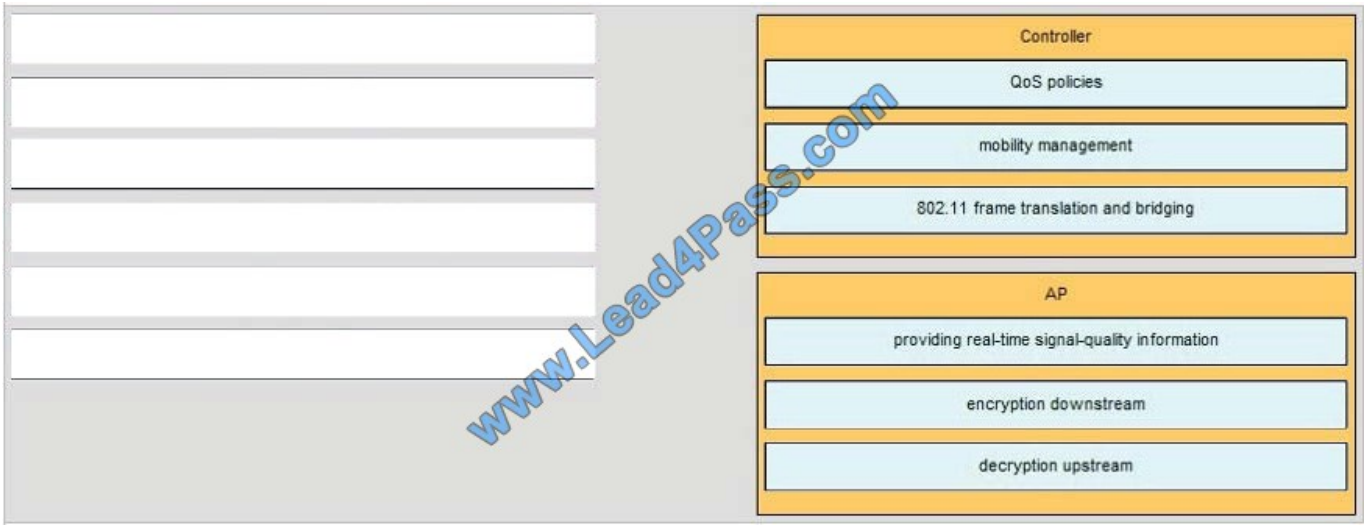
DRAG DROP

Drag the features on the left that use the “split MAC” model and drop them on the appropriate device on the right.

Select and Place:



Correct Answer:



QUESTION 5

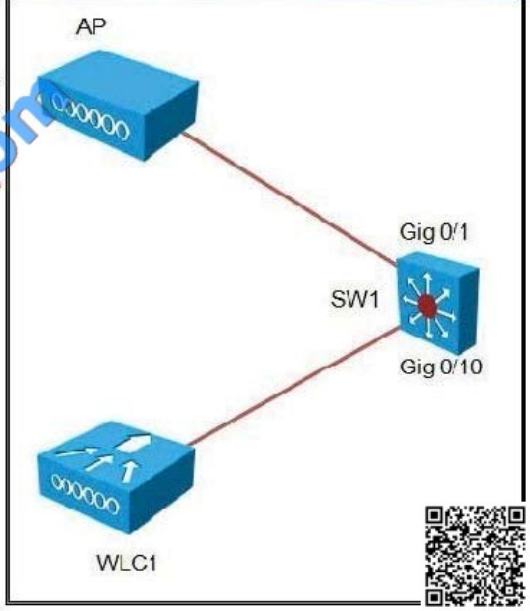
Instructions

- THIS TASK DOES NOT REQUIRE DEVICE CONFIGURATION.
- To access the multiple-choice questions, click on the numbered boxes on the left of the top panel.
- There are **two** multiple-choice questions with this task. Be sure to answer both questions before selecting the Next button.

Scenario

A wireless LAN controller and AP are correctly configured. Verification is needed for the logging attributes while AP power adjustments are needed. Use the exhibits to resolve these issues.

Topology



WLC 802.11bgn AP

802.11b/g/n Cisco APs > Configure

General

AP Name	AP442b.036d.4d0f
Admin Status	Enable
Operational Status	UP
Slot #	0

11n Parameters

11n Supported	Yes
ClientLink	

CleanAir

CleanAir Capable	No
CleanAir Admin Status	Disable

Antenna Parameters

Antenna Type	Internal	
Antenna	A	☑
	B	☑
	C	☑

RF Channel Assignment

Current Channel	11
Channel Width	20 MHz
Assignment Method	◉ Global
	○ Custom

Note: Only Channels 1,6 and 11 are nonoverlapping

Tx Power Level Assignment

Current Tx Power Level	5
Assignment Method	○ Global
	◉ Custom 5

Performance Profile

View and edit Performance Profile for this AP

Performance Profile

Note: Changing any of the parameters causes the Ra temporarily disabled and thus may result in loss of co some clients.

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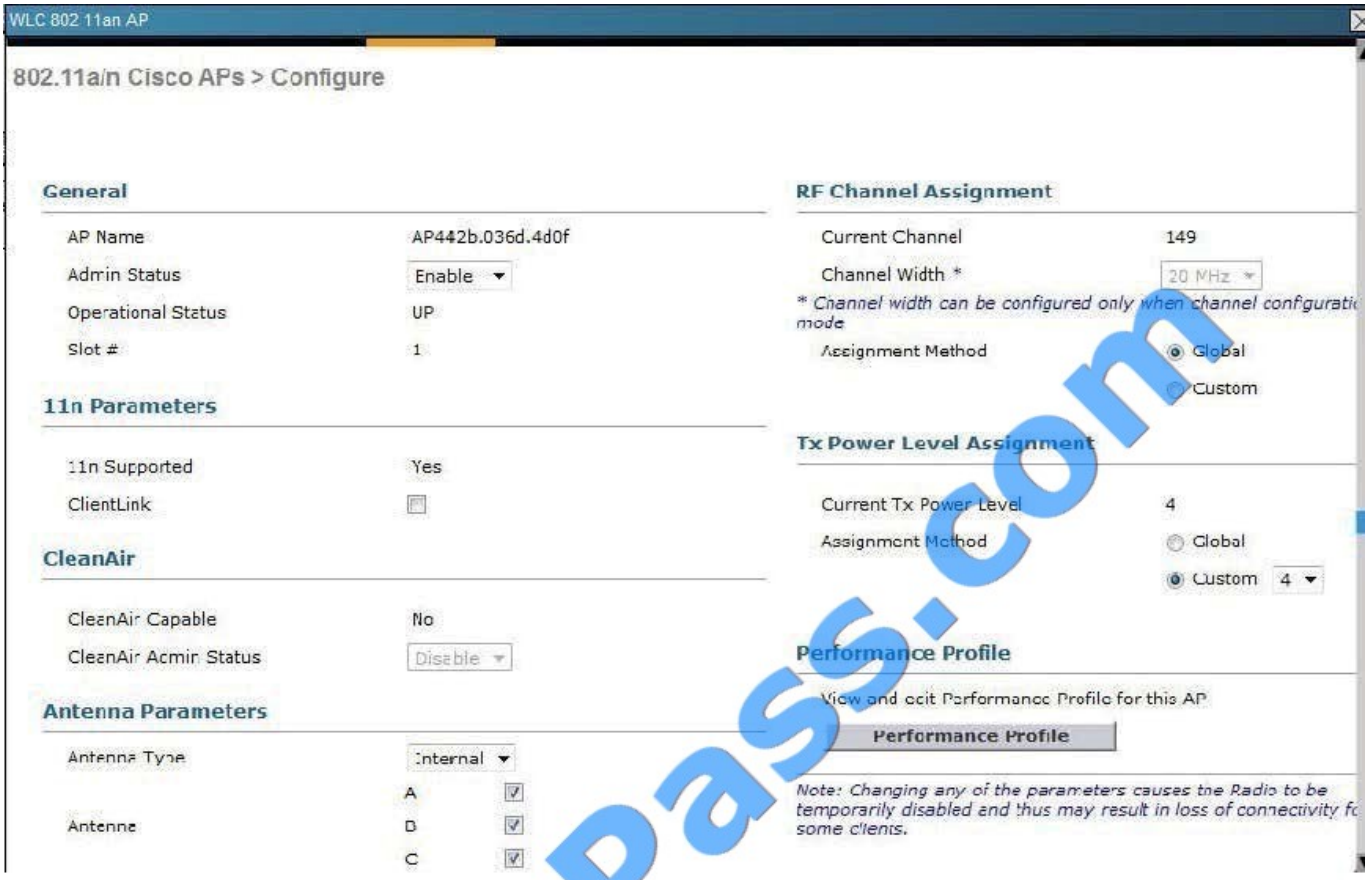

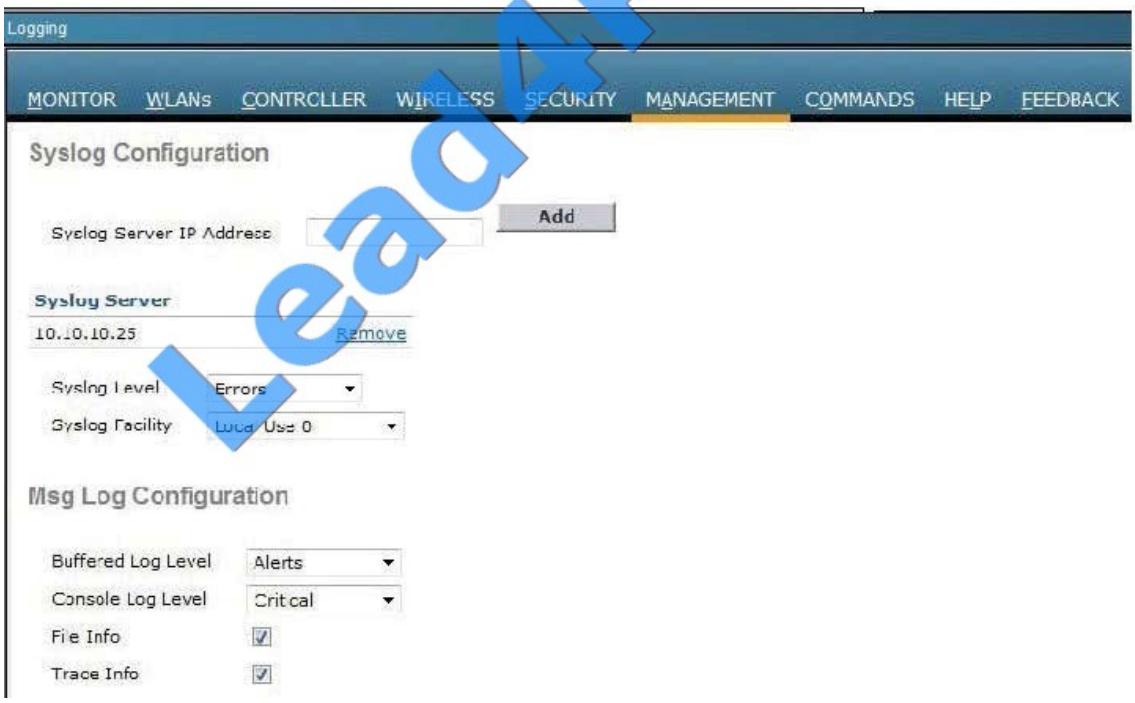

What APTx Power Level Assignment would be required to increase power by 3 dBm on 2.4GHz radio?

A. 1

B. 2

C. 3

D. 4

E. 5

F. 6

G. 7

H. 8

Correct Answer: D

From the output, we can see the current power level setting for the 802.11 bgn (2.4Ghz tab) is set at 5. Based on the following table from Cisco, that would mean the output power is 3 mW:

Available Output Power Levels

Controller Tx Power Settings[1]	Radio Output Power	
	802.11b (mW)	802.11g (mW)
1 (maximum)[2]	50	30
2	25	15
3	12	8
4	6	4
5	3	2
6	2	1
7	-1	-
8		-

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Here is the power conversion table to go from mW to 3bm:

Power Conversion Table

mW	dBm		mW	dBm		mW	dBm
200	23		40	16		8	9
150	22		30	15		6	8
125	21		25	14		5	7
100	20		20	13		4	6
80	19		15	12		3	5
60	18		12	11		2	2
50	17		10	10		1	-1

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So, with a power level setting of 5, the output power is is 3mW, or 5 dbm. A power level of 4 would increase it to 6mW, or 8 dbm.

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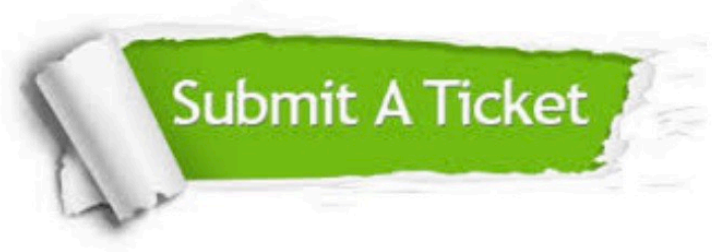

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