



PW0-105^{Q&As}

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QUESTION 1

Given:

An 802.11 WLAN transmitter that emits a 50 mW signal is connected to a cable with 3 dB loss. The cable is connected to an antenna with 16 dBi gain.

What is the EIRP power output?

- A. 17 dBm
- B. 20 dBm
- C. 23 dBm
- D. 27 dBm
- E. 30 dBm

Correct Answer: E

QUESTION 2

Given: Return Loss is the decrease of forward energy in a system when some of the power is being reflected back toward the transmitter.

What causes high return loss in an RF transmission system?

- A. A Voltage Standing Wave Ratio (VSWR) of 1:1
- B. An impedance mismatch between devices in the RF system
- C. Cross-polarization of the RF signal as it passes through the RF system
- D. The use of different connector types in the RF system (e.g. N-type and SMA-type)
- E. Low output power at the transmitter and use of a high-gain antenna

Correct Answer: B

QUESTION 3

What factors influence the distance that an RF signal can be effectively received? (Choose 4)

- A. Transmitting station's antenna type
- B. Receiving station's radio sensitivity
- C. Free Space Path Loss



- D. MAC layer encryption
- E. Transmitting station's output power
- F. Temperature in the Fresnel zone

Correct Answer: ABCE

QUESTION 4

If an 802.11 RF transmission reaches a receiving antenna simultaneously by direct and indirect (reflected) paths, what effect will the reflected signal have on the signal that took the direct line-of-sight path?

- A. The direct signal will only be received if the reflected signal is more than 180 degrees out of phase.
- B. The direct signal cannot be received if the indirect signal is less than 90 degrees out-of-phase.
- C. The signals will be distorted if the indirect signal arrives simultaneously at the receiver, but 90 degrees out-of-phase.
- D. If the signals are in-phase, they will combine together, cancel one another out, and create a null.

Correct Answer: C

QUESTION 5

Given the Wi-Fi certification shown in the exhibit, what statement is FALSE about this device?



Wi-Fi CERTIFIED™ Interoperability Certificate

Certification ID: WFA11082



This certificate lists the capabilities and features that have successfully completed Wi-Fi Alliance interoperability testing. Additional information about Wi-Fi Alliance certification programs is available at www.wi-fi.org/certification_programs.php.

Tested Spatial Streams	Dual-Band Selectable	
	2.4 GHz	5.0 GHz
Transmit	1	1
Receive	1	1

Certificate Date: March 04, 2011
Company: [Redacted]
Product: [Redacted]
Model/SKU #: [Redacted]
Category: Tablet

IEEE Standard	Security	Multimedia	Convergence
IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n IEEE 802.11h	WPA® - Enterprise, Personal WPA2® - Enterprise, Personal <u>Vendor EAP Type(s)</u> EAP-TLS EAP TTLS/MSCHAPv2 PEAPv0/EAP-MSCHAPv2 PEAPv1/EAP-GTC	WMM®	CWG-RF

- A. This client device supports protection mechanisms such as RTS/CTS and/or CTS-to-Self.
- B. This client device supports both TKIP and CCMP cipher suites.
- C. 300 Mbps is the maximum supported data rate for this device.
- D. This client device supports the ERP, OFDM, and HT physical layer specifications.
- E. This client device supports X.509 certificates for EAP authentication.

Correct Answer: C

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