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## Question 1

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**Question Type:** MultipleChoice

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What best describes WPA2 in relation to 802.11 wireless networks?

### Options:

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- A-** WPA2 is the standard that defines security for WLANs.
- B-** WPA2 is a certification created by the Wi-Fi Alliance that validates devices correctly implement CCMP/ AES.
- C-** WPA2 is the second version of WPA and it enhances security through the use of TKIP instead of WEP.
- D-** WPA2 is specified in the 802.11 standard as implementing CCMP/AES.

### Answer:

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A

## Question 2

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**Question Type:** MultipleChoice

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

**Options:**

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

**Answer:**

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B

## Question 3

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**Question Type: MultipleChoice**

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What statement about the beamwidth of an RF antenna is true?

**Options:**

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- A- Horizontal and vertical beamwidth are calculated at the points where the main lobe decreases power by 3 dB.
- B- The beamwidth patterns on an antenna polar chart indicate the point at which the RF signal stops propagating.
- C- When antenna gain is lower, the beamwidth is also lower in both the horizontal and vertical dimensions.
- D- Vertical beamwidth is displayed (in degrees) on the antenna's Azimuth chart.

**Answer:**

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A

## Question 4

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**Question Type: MultipleChoice**

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Which directional antenna types are commonly used by indoor Wi-Fi devices in a MIMO multiple spatial stream implementation?

**Options:**

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- A- Dipole and yagi

- B- Grid and sector
- C- Patch and panel
- D- Dish and grid

**Answer:**

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C

## Question 5

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**Question Type:** MultipleChoice

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What wireless networking term describes the increase of RF energy in an intentional direction with the use of an antenna?

**Options:**

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- A- Directed Radiation
- B- Beam Digression
- C- Passive Gain
- D- Active Amplification

**Answer:**

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C

## Question 6

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**Question Type:** MultipleChoice

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

**Options:**

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- A-** A Fade Margin is unnecessary on a long-distance RF link if more than 80% of the first Fresnel zone is clear of obstructions.
- 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-** The Fade Margin of a long-distance radio link should be equivalent to the receiver's low noise filter gain.

**Answer:**

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C

## Question 7

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**Question Type:** MultipleChoice

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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?

**Options:**

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

**Answer:**

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C

## Question 8

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**Question Type:** MultipleChoice

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What factor does not influence the distance at which an RF signal can be effectively received?

**Options:**

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- A- Receiving station's radio sensitivity
- B- Receiving station's output power
- C- Transmitting station's output power
- D- Free Space Path Loss

**Answer:**

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A

## Question 9

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**Question Type:** MultipleChoice

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What can an impedance mismatch in the RF cables and connectors cause?



**Options:**

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- A- Increased range of the RF signal
- B- Fewer MCS values in the MCS table
- C- Increased amplitude of the RF signal
- D- Excessive VSWR

**Answer:**

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D

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