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SECTION-A(1 MARK)

1. In a family of 3 children, the probability of having at least one boy is
a) $\frac{7}{8}$ b) $\frac{1}{8}$ c) $\frac{5}{8}$ d) $\frac{3}{4}$
2. If the mean and mode of a distribution are 15 and 18 respectively, then the median of the distribution is
a) 17 b) 15 c) 16 d) 18
3. From an external point Q, the length of the tangent to a circle is 5cm and the distance of Q from the centre is 8cm. The radius of the circle is
a) 39cm b) 3cm c) $\sqrt{39}$ cm d) 7cm
4. If $k+2, 4k-6, 3k-2$ are three consecutive terms of an A.P. then k will be
a) 1 b) -1 c) 3 d) -3
5. If two positive integers p and q can be expressed as $p=ab^2$ and $q=a^3b$; a, b being prime nos.. then LCM (p, q) is
a) ab b) a^2b^2 c) a^3b^2 d) a^3b^3

SECTION-B(2 MARKS)

6. If the zeroes of the quadratic polynomial $x^2 + (a+1)x + b$ are 2 and -3, then find values of a and b
7. Prove that $\sqrt{\frac{1+\sin A}{1-\sin A}} = \sec A + \tan A$

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CWNP CWNA-109 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• WLAN Network Security: It addresses the concepts of weak security options, security mechanisms for enterprise WLANs, and security options and tools used in wireless networks.
Topic 2	<ul style="list-style-type: none">• WLAN Regulations and Standards: The topic discusses the roles of WLAN and networking industry organizations. It also addresses the concepts of various Physical Layer (PHY) solutions, spread spectrum technologies, and 802.11 WLAN functional concepts.

Topic 3	<ul style="list-style-type: none"> Radio Frequency (RF) Technologies: This topic explains the basic features and behavior of RF. It also discusses applying the basic concepts of RF mathematics and measurement. Lastly, the topic covers RF signal characteristics and the functionality of RF antennas.
Topic 4	<ul style="list-style-type: none"> WLAN Protocols and Devices: It focuses on terminology related to the 802.11 MAC and PHY, the purpose of the three main 802.11 frame types, MAC frame format, and 802.11 channel access methods.
Topic 5	<ul style="list-style-type: none"> RF Validation and WLAN remediation: This topic covers RF interference, WLAN performance, the basic features of validation tools, and common wireless issues.

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CWNP Wireless Network Administrator (CWNA) Sample Questions (Q102-Q107):

NEW QUESTION # 102

You are using a site survey tool for post-implementation validation. You have installed the appropriate adapter driver and imported a floor plan. Now, you want to take the next step in proper tool use. What must you do before gathering survey data after the floor plan is imported?

- A. Calibrate the floor plan
- B. Install WinPCAP
- C. Install iPerf
- D. Nothing, you can simply start capturing signal readings

Answer: A

Explanation:

Calibrating the floor plan is what you must do before gathering survey data after the floor plan is imported when using a site survey tool for post-implementation validation. A site survey tool is a software application that can run on a laptop, tablet, smartphone, or other device that has a Wi-Fi adapter and a GPS receiver. A site survey tool can scan the wireless environment and collect information about the detected access points and client stations, such as their SSID, BSSID, channel, signal strength, security, and data rate. A site survey tool can also measure and display various metrics of network performance, such as throughput, jitter, packet loss, delay, and SNR. A site survey tool can also use a floor plan to visualize the wireless coverage and quality in different locations on a map. A floor plan is an image file that shows the layout and dimensions of a building or an area where the WLAN is deployed. A floor plan can be imported from various sources, such as a CAD file, a PDF file, an image file, or a Google Maps screenshot. After importing a floor plan into a site survey tool, it is necessary to calibrate the floor plan before gathering survey data. Calibrating the floor plan means adjusting the scale and orientation of the floor plan to match the actual size and direction of the area. Calibrating the floor plan can be done by using a reference point or a reference line that has a known distance or angle in the real world. Calibrating the floor plan ensures that the survey data is accurate and consistent with the physical environment. References: 1, Chapter 7, page 290; 2, Section 4.3

NEW QUESTION # 103

What can cause excessive VSWR in RF cables used to connect a radio to an antenna?

- A. Radio output power above 100 mW but below 400 mw

- B. High gain parabolic dish antenna
- **C. Impedance mismatch**
- D. High gain yagi antenna

Answer: C

Explanation:

Impedance is the measure of opposition to the flow of alternating current (AC) in a circuit. Impedance mismatch occurs when the impedance of the radio does not match the impedance of the antenna or the cable.

This causes some of the transmitted or received signal to be reflected back, resulting in a loss of power and efficiency. The voltage standing wave ratio (VSWR) is a metric that indicates the amount of impedance mismatch in a transmission line. A higher VSWR means a higher impedance mismatch and a lower signal quality. A VSWR of 1:1 is ideal, meaning there is no impedance mismatch and no reflected power. A VSWR of 2:1 means that for every 2 units of forward power, there is 1 unit of reflected power¹².

The other options are not correct because they do not affect the VSWR in RF cables. A high gain yagi antenna or a high gain parabolic dish antenna can increase the signal strength and directionality, but they do not cause impedance mismatch in the cable. Radio output power above 100 mW but below 400 mW is within the acceptable range for most WLAN devices and does not cause excessive VSWR in the cable¹³.

References: 1:CWNA-109Official Study Guide, page 77 2: VSWR 3:CWNA-109Official Study Guide, page 81

NEW QUESTION # 104

Which one of the following channels can be used for VHT transmissions according to the 802.11 specification?

- A. 0
- B. 1
- C. 2
- **D. 3**

Answer: D

Explanation:

The channel that can be used for VHT transmissions according to the 802.11 specification is channel 144.

VHT stands for Very High Throughput and is the PHY layer specification for 802.11ac devices. VHT transmissions can use channel bandwidths of 20 MHz, 40 MHz, 80 MHz, or 160 MHz in the 5 GHz band.

Channel 144 is one of the channels in the 5 GHz band that can support VHT transmissions with any of these bandwidths. Channel 6, channel 1, and channel 11 are channels in the 2.4 GHz band that cannot support VHT transmissions, as they are only compatible with legacy (802.11b/g/n), HT (802.11n), or ERP (802.11g) transmissions with up to 20 MHz bandwidth. References: [CWNP Certified Wireless Network Administrator Official Study Guide: ExamCWNA-109], page 214; [CWNA: Certified Wireless Network Administrator Official Study Guide: ExamCWNA-109], page 204.

NEW QUESTION # 105

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. Spectrum analyzer
- D. Protocol analyzer

Answer: A

Explanation:

The tool described is a WLAN (Wireless Local Area Network) scanner tool. WLAN scanner tools are designed to provide information about the wireless networks in a given area, including:

* Signal Strength: They show the signal strength of all access points (APs) in the vicinity, which is crucial for understanding the coverage area and potential interference.

* SSID Visualization: These tools display the SSIDs (Service Set Identifiers) of available networks, allowing users to identify

different wireless networks easily.

* Security Settings Information: WLAN scanner tools often show the type of security implemented on each network, such as WPA2, WEP, etc.

* Frequency Band Filtering: They allow users to filter and view networks based on the frequency band (2.4 GHz or 5 GHz), which is useful for analyzing network distribution and planning.

While protocol analyzers, site survey utilities, and spectrum analyzers are also used in wireless networking, their functions are distinct from what is described:

* Protocol Analyzers are more sophisticated and are used to capture and analyze network traffic.

* Site Survey Utilities are used to map signal coverage and plan network layouts, often with more advanced features for detailed site surveys.

* Spectrum Analyzers provide a detailed view of the frequency spectrum and non-Wi-Fi interference but don't typically focus on SSIDs or security settings.

Thus, the correct answer is D, a WLAN scanner tool, based on the functionalities described.

References:

* CWNA Certified Wireless Network Administrator Official Study Guide: Exam PW0-105, by David D. Coleman and David A. Westcott.

* Tools and techniques for wireless network analysis and troubleshooting.

NEW QUESTION # 106

What cipher suite is specified by the 802.11-2016 standard and is not deprecated?

- A. Temporal Key Integrity Protocol
- B. Counter Mode with CBC-MAC Protocol
- C. Wired Equivalent Privacy
- D. Extensible Authentication Protocol

Answer: B

Explanation:

The cipher suite specified by the 802.11-2016 standard and is not deprecated is Counter Mode with CBC-MAC Protocol (CCMP). CCMP is an encryption protocol that uses Advanced Encryption Standard (AES) as the underlying cipher and provides confidentiality, integrity, and origin authentication for wireless data. CCMP is the mandatory encryption protocol for WPA2 and WPA3. References: [CWNP Certified Wireless Network Administrator Official Study Guide: Exam CWNA-109], page 295; [IEEE Standard for Information technology-Telecommunications and information exchange between systems Local and metropolitan area networks-Specific requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications], page 1560.

NEW QUESTION # 107

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