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**NETWORK AND SECURITY
FOUNDATION 2024/2025 OBJECTIVE
ASSESSMENT VERIFIED QUESTIONS
AND ANSWERS 100% GRADED A+**

Basic elements of a fiber-optic communication plan - (correct answer) fiber, optical light source, photosensitive detection, efficient optical connection

Advantages of fiber optics - (correct answer) bandwidth
immunity to electrostatic interference
elimination of crosstalk
lower signal attenuation
lower cost
safety
no corrosion problem
security

Commonly used wavelengths in fiber-optic systems - (correct answer) 850 nm
1310 nm
1550 nm
1600-1625 nm

What part of an optical fiber carries the light - (correct answer) the core of an optical fiber carries the light

What is a measure of fibers light acceptance - (correct answer) numerical aperture

typical core/cladding sizes in microns for multimode fiber - (correct answer) 50/125um and 62.5/125um

Typical core size for single fiber mode - (correct answer) 7 to 10 um

what are the two key distance limiting parameters in fiber optic transmission - (correct answer) attenuation and dispersion

four factors that contribute to attenuation - (correct answer) scattering, absorption, macrobending, microbending

three types of dispersion - (correct answer) modal, chromatic, polarization mode

two light sources used in fiber optic - (correct answer) diode laser
light emitting diode

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WGU Network-and-Security-Foundation Sample Questions (Q56-Q61):

NEW QUESTION # 56

Which layer of the TCP/IP model includes the Internet Protocol (IP)?

- A. Application
- B. Transport
- C. Physical or network access
- **D. Network or internet**

Answer: D

Explanation:

The Network or Internet layer of the TCP/IP model is responsible for addressing, routing, and delivering packets across networks. The Internet Protocol (IP) operates at this layer, ensuring that data is correctly routed from the source to the destination.

* Physical or network access layer deals with hardware transmission (e.g., Ethernet, Wi-Fi).

* Application layer includes end-user services (e.g., HTTP, FTP).

* Transport layer manages data flow using protocols like TCP and UDP but does not handle IP addressing.

NEW QUESTION # 57

An organization is the victim of an attack in which an attacker intercepts messages between two parties before transferring them to the correct destination.

What is the type of cyberattack described in this scenario?

- A. Credential stuffing
- B. Social engineering
- **C. Man-in-the-middle attack**
- D. Pharming

Answer: C

Explanation:

A man-in-the-middle (MITM) attack occurs when an attacker secretly intercepts and relays communication between two parties. This allows the attacker to steal data, modify messages, or inject malicious content without the victims' knowledge.

* Credential stuffing reuses stolen login credentials but does not involve interception.

* Social engineering manipulates users rather than intercepting messages.

* Pharming redirects users to fraudulent websites, but it does not intercept communication.

NEW QUESTION # 58

A company is ensuring that its network protocol meets encryption standards.

What is the CIA triad component targeted in the scenario?

- A. Integrity
- B. Consistency
- C. Availability
- **D. Confidentiality**

Answer: D

Explanation:

Confidentiality in IT security ensures that sensitive data remains private and protected from unauthorized access. Encryption is a key measure used to maintain confidentiality by encoding data so that only authorized users can access it.

* Integrity ensures that data remains accurate and unchanged.

- * Availability ensures that data is accessible when needed.
- * Consistency is not a component of the CIA triad.

NEW QUESTION # 59

An organization does not have controls in place to limit employee access to sensitive customer data. What is a component of the CIA triad that is violated?

- A. Integrity
- B. Availability
- C. Confidentiality
- D. Interpretation

Answer: C

Explanation:

Confidentiality ensures that only authorized users have access to sensitive information. Without proper access controls, employees may be able to view or modify sensitive data without proper authorization, leading to a confidentiality breach.

- * Integrity involves protecting data from unauthorized modifications.
- * Availability ensures that systems remain operational.
- * Interpretation is not part of the CIA triad.

NEW QUESTION # 60

An attacker uses login data from a data breach to attempt to access another web service. Which malicious attack strategy is represented in the scenario?

- A. Social engineering
- B. Session hijacking
- C. Credential stuffing
- D. Brute-force attack

Answer: C

Explanation:

Credential stuffing is a cyberattack where attackers use stolen username-password combinations from one breach to try logging into other services, exploiting users who reuse passwords. Automated tools test multiple credentials against multiple sites, leading to unauthorized access.

- * Brute-force attack systematically tries all possible passwords but does not use breached data.
- * Session hijacking intercepts active user sessions but does not use stolen credentials.
- * Social engineering manipulates users into revealing credentials, rather than using breached data.

NEW QUESTION # 61

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