

# Network-and-Security-Foundation Answers Free | Latest Network-and-Security-Foundation Study Notes

**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 (Q26-Q31):

### NEW QUESTION # 26

An attacker uses malicious software to disable network resources, demanding a ransom to restore access. Which category describes the purpose of the attack?

- A. Launch point
- **B. Denial of availability**
- C. Data export
- D. Data modification

**Answer: B**

Explanation:

This describes a ransomware attack, which falls under denial of availability because it prevents users from accessing their data or systems until a ransom is paid. Attackers use encryption to lock files, disrupting operations.

- \* Data modification refers to unauthorized changes to information.
- \* Data export involves stealing data rather than disabling access.
- \* Launch point describes an attacker's use of a compromised system to attack others.

### NEW QUESTION # 27

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

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

**Answer: A**

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 # 28

An attacker uses a poisoned domain name on the domain name server to navigate users to the attacker's site. Which malicious attack strategy is represented in the scenario?

- **A. Pharming**
- B. Brute-force attack
- C. IP address spoofing
- D. Session hijacking

**Answer: A**

Explanation:

Pharming is an attack that manipulates the Domain Name System (DNS) to redirect users to fraudulent websites without their knowledge. Attackers poison DNS records or compromise routers to reroute traffic to malicious sites designed to steal information.

- \* Brute-force attack involves password guessing, not domain manipulation.
- \* IP address spoofing disguises a device's identity but does not alter DNS records.

\* Session hijacking takes over active user sessions but does not redirect websites.

#### NEW QUESTION # 29

A company is developing a disaster recovery plan for its internal network.

What is the CIA triad component targeted in the scenario?

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

**Answer: B**

Explanation:

Availability ensures that systems and data remain accessible and operational, even in the event of failures or attacks. A disaster recovery plan (DRP) focuses on restoring IT infrastructure and operations after incidents like hardware failures, cyberattacks, or natural disasters. Strategies include data backups, failover systems, and redundant architectures.

\* Confidentiality focuses on restricting unauthorized access.

\* Integrity ensures data remains unaltered, but does not address service continuity.

\* Innovation is unrelated to the CIA triad.

#### NEW QUESTION # 30

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

**Answer: A**

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 # 31

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