

# Useful Network-and-Security-Foundation Dumps - Valid Network-and-Security-Foundation Test Answers

**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 (Q12-Q17):

### NEW QUESTION # 12

After recently experiencing a security breach, a company is working on improving its database security. As a part of its security governance strategies, the company is developing a database security checklist.

Which component is important to include in this checklist?

- A. Developing algorithms for secure access to data
- B. Disclosing any instances of breaches of personal data
- C. Outsourcing data management to third-party vendors
- D. Restricting physical access to locations where data is housed

**Answer: D**

Explanation:

Restricting physical access to data storage facilities is a critical part of database security. Even with strong cybersecurity measures, unauthorized physical access to servers can lead to breaches. Security strategies include biometric authentication, surveillance cameras, and restricted entry zones.

\* Disclosing breaches is required by compliance laws but does not protect data proactively.

\* Developing algorithms improves security but is not a fundamental checklist item.

\* Outsourcing data management can introduce security risks if not properly controlled.

### NEW QUESTION # 13

What is the layer of the OSI model that creates, maintains, and disconnects process communications over the network?

- A. Physical
- B. Transport
- C. Session
- D. Data link

**Answer: C**

Explanation:

The Session layer (Layer 5 of the OSI model) is responsible for establishing, maintaining, and terminating communication sessions between network applications. It ensures that data exchanges remain synchronized and structured.

\* Data link layer handles error detection and frame transmission.

\* Physical layer deals with hardware-level transmission.

\* Transport layer ensures reliable data delivery but does not manage sessions.

### NEW QUESTION # 14

A person is troubleshooting a network issue and needs to see a list of all active network connections.

Which Linux command should be used?

- A. dig
- B. ifconfig
- C. netstat
- D. nslookup

**Answer: C**

Explanation:

The netstat command in Linux displays active network connections, listening ports, and network statistics. It is useful for diagnosing network issues and identifying open connections.

- \* nslookup is for DNS queries.
- \* dig provides DNS information, not network connection status.
- \* ifconfig shows network interface details but does not list active connections.

#### NEW QUESTION # 15

Access to a company's information system requires a user to be within a valid geographic location and to enter a valid username and password.

Which concept does this scenario demonstrate?

- A. Single sign-on
- B. User-based accounting
- C. Multifactor authentication
- D. Certificate verification

**Answer: C**

Explanation:

Multifactor authentication (MFA) requires users to verify their identity using multiple factors, such as something they know (password), something they have (a token or phone), or somewhere they are (geolocation-based access control). Requiring both location verification and password authentication demonstrates MFA.

\* Certificate verification checks digital certificates for security but does not use multiple authentication factors.

\* User-based accounting logs user activities but does not verify identity.

\* Single sign-on (SSO) allows access to multiple systems with one login but is not necessarily MFA.

#### NEW QUESTION # 16

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

**Answer: C**

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 # 17

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