

Digital Firewall: A Cybersecurity Blueprint for College Freshmen

How do hackers exploit human psychology? This mixed-format quiz identifies fundamental security protocols and threat vectors in professional digital environments.

1. In the context of organizational security, what is the primary purpose of an 'Air Gap'?

- A. To increase the cooling efficiency of server rooms
- B. To physically isolate a secure network from unsecured networks like the public internet
- C. To allow wireless signals to travel through reinforced walls
- D. To provide a backup cloud storage synchronization point

2. Biometric authentication, such as fingerprint or facial recognition, is considered a 'something you are' factor in multi-factor authentication.

- A. True
- B. False

3. Which of the following describes 'vishing' in a professional setting?

- A. A physical security breach using cloned keycards
- B. A phishing attack conducted over phone calls or voice messages
- C. An encrypted connection between two remote servers
- D. The process of updating antivirus definitions

4. A university student receives an email claiming to be from the 'IT Help Desk' asking them to click a link to 'validate their mailbox quota.' This is an example of:

- A. Social Engineering
- B. Data Encryption
- C. White-hat Hacking
- D. Hardware Redundancy

5. Using a Virtual Private Network (VPN) on a public Wi-Fi network creates an encrypted 'tunnel' for your data, making it harder for others on the same network to intercept your traffic.

- A. True
- B. False

6. Which of these is the most secure method for managing multiple complex passwords across different academic and personal accounts?

- A. Using the same strong password for all sites to ensure recall
- B. Writing passwords in a physical notebook kept in a backpack
- C. Utilizing a dedicated password manager with a single, unique master password
- D. Saving passwords in a plain text file on the desktop labeled 'Logins'

Name: _____

Date: _____

7. In cybersecurity, the 'principle of least privilege' (PoLP) suggests that users should be given:

- A. Full administrative access to ensure productivity
- B. Only the minimum levels of access necessary to perform their job functions
- C. Access to all data except for financial records
- D. Permission to share their credentials with immediate supervisors

8. Software updates and 'patches' are primarily released to add new aesthetic features and rarely contain security fixes.

- A. True
- B. False

9. What is the primary risk of 'tailgating' in the context of physical security at a data center or office?

- A. An unauthorized person following an authorized person into a restricted area
- B. Slowing down the network by running too many background apps
- C. Creating a duplicate of a website to steal user credentials
- D. Sending too many marketing emails to a single recipient

10. If you suspect your college email account has been compromised, your first instructional step should be to:

- A. Delete the account and all its contents immediately
- B. Wait for the IT department to notice and contact you
- C. Report the incident to IT and change your password from a known clean device
- D. Post an alert on social media so friends don't open your emails