**1. What is the primary goal of operating system security?**

A) User convenience  
B) Resource allocation  
C) Protecting data and resources  
D) System performance

**2. Which of the following is a common method for enforcing access control in operating systems?**

A) Passwords  
B) User interfaces  
C) Network protocols  
D) File extensions

**3. What type of attack involves intercepting and altering communications between two parties?**

A) Phishing  
B) Man-in-the-Middle  
C) Denial of Service  
D) SQL Injection

**4. Which security model is focused on maintaining confidentiality and is often represented by the Bell-LaPadula model?**

A) Clark-Wilson  
B) Biba  
C) Access Control List  
D) Multilevel Security

**5. What is the purpose of a firewall in an operating system?**

A) To manage system resources  
B) To prevent unauthorized access  
C) To enhance user interface  
D) To improve application performance

**6. Which of the following is NOT a common type of malware?**

A) Virus  
B) Worm  
C) Firewall  
D) Trojan horse

**7. In the context of operating system security, what does "least privilege" refer to?**

A) Users having the maximum level of access  
B) Users having only the necessary permissions  
C) Users having unlimited access to the system  
D) Users not needing any permissions

**8. Which security feature can help ensure that a system's state is intact and unaltered?**

A) Encryption  
B) Backups  
C) Checksums  
D) Antivirus software

**9. What does the term "patch management" refer to?**

A) Installing new hardware  
B) Updating software to fix vulnerabilities  
C) Changing passwords regularly  
D) Backing up data

**10. Which of the following is a technique used to protect sensitive data from unauthorized access?**

A) Encryption  
B) Compression  
C) Archiving  
D) Formatting

1. C) Protecting data and resources

2. A) Passwords

3. B) Man-in-the-Middle

4 D) Multilevel Security

5. B) To prevent unauthorized access

6. C) Firewall

7 B) Users having only the necessary permissions

8 C) Checksums

9 B) Updating software to fix vulnerabilities

10. A) Encryption