

Sure! Here are 100 advanced multiple-choice questions on mobile application penetration testing, including the OWASP Top 10 and other vulnerabilities. The correct options are in bold.

### ### Mobile Application Penetration Testing MCQs

1. Which OWASP Top 10 risk includes insecure data storage?

- A) Security Misconfiguration
- **\*B) Insecure Data Storage\***
- C) Insufficient Logging & Monitoring
- D) Broken Authentication

2. What is the main purpose of the Mobile Security Testing Guide (MSTG)?

- A) To provide coding standards
- **\*B) To offer a comprehensive security testing framework\***
- C) To outline network security protocols
- D) To list vulnerabilities in web applications

3. Which of the following is a common tool for mobile application penetration testing?

- **\*A) Burp Suite\***
- B) Metasploit
- C) Nessus
- D) Wireshark

4. What does "code obfuscation" in mobile apps primarily aim to prevent?

- A) SQL Injection
- **\*B) Reverse engineering\***
- C) Cross-Site Scripting
- D) Buffer overflow

5. In the context of mobile applications, what does the term "sandboxing" refer to?

- A) Data encryption
- \*B) Isolation of app processes\*
- C) User authentication
- D) Network segmentation

6. Which OWASP Top 10 vulnerability deals with improper authentication?

- A) Security Misconfiguration
- B) Sensitive Data Exposure
- \*C) Broken Authentication\*
- D) Insufficient Cryptography

7. What does the term "jailbreaking" refer to?

- A) Securing a device
- \*B) Removing OS restrictions\*
- C) Updating software
- D) Encrypting data

8. Which of the following is a key step in the mobile application testing process?

- A) Static analysis only
- B) Manual code review only
- \*C) Both static and dynamic analysis\*
- D) Network analysis only

9. What is the risk of hardcoding sensitive information in mobile apps?

- A) Increased app size
- B) Improved performance
- \*C) Exposure to reverse engineering\*

- D) Reduced user experience

10. Which OWASP risk focuses on insufficient security controls for API calls?

- A) Insecure Data Storage
- B) Security Misconfiguration
- \*C) Insecure Communication\*
- D) Broken Access Control

11. What is the purpose of SSL pinning in mobile applications?

- A) Increase performance
- B) Prevent application crashes
- \*C) Mitigate man-in-the-middle attacks\*
- D) Improve data storage

12. Which of the following tools can be used for dynamic analysis of mobile applications?

- A) Apktool
- \*B) Frida\*
- C) Burp Suite
- D) Nessus

13. What type of vulnerability is reflected XSS?

- A) Server-side
- B) Client-side
- \*C) Both A and B\*
- D) None of the above

14. What does the term "rooting" refer to?

- A) Enhancing security

- \*B) Gaining superuser access\*
- C) Installing antivirus software
- D) Updating firmware

15. Which OWASP vulnerability involves the app exposing sensitive data to unauthorized users?

- A) Insufficient Logging & Monitoring
- \*B) Sensitive Data Exposure\*
- C) Broken Access Control
- D) Injection

16. Which mobile platform is known for its strict security policies?

- \*A) iOS\*
- B) Android
- C) Windows Mobile
- D) Blackberry

17. What is the main risk associated with improper session management?

- A) Performance degradation
- \*B) Session hijacking\*
- C) Increased server load
- D) User confusion

18. Which vulnerability allows an attacker to execute arbitrary code in a mobile app?

- A) XSS
- B) CSRF
- C) \*Code Injection\*
- D) SQL Injection

19. What is an example of a local data storage mechanism in mobile apps?

- A) API calls
- B) Cloud storage
- \*C) SQLite database\*
- D) HTML5 storage

20. Which of the following is a common method for securing sensitive data in transit?

- A) Using plain text
- \*B) TLS/SSL encryption\*
- C) File system encryption
- D) Data masking

21. In mobile app testing, what does the term "data leakage" refer to?

- \*A) Unauthorized data exposure\*
- B) Slow application response
- C) Poor user interface
- D) High battery consumption

22. Which tool is commonly used to perform reverse engineering on Android applications?

- A) Burp Suite
- B) Wireshark
- \*C) JADX\*
- D) Nmap

23. What is the primary goal of an attacker exploiting the "Insecure Communication" vulnerability?

- A) Modify application behavior
- \*B) Intercept sensitive data\*
- C) Increase app speed
- D) Gain admin access

24. Which type of attack can exploit broken access controls in mobile apps?

- A) Denial of Service
- \*B) Privilege escalation\*
- C) XSS
- D) Man-in-the-middle

25. What is a common defense against SQL Injection in mobile apps?

- A) Input sanitization only
- B) Prepared statements
- \*C) Parameterized queries\*
- D) Use of stored procedures only

26. What does "session fixation" vulnerability allow?

- \*A) Attackers to hijack user sessions\*
- B) Decrease app performance
- C) Access admin features
- D) Inject malware

27. In mobile penetration testing, what does the term "black-box testing" refer to?

- A) Analyzing source code
- B) Reviewing network architecture
- \*C) Testing without prior knowledge of the application\*
- D) Testing with full access to the app

28. Which vulnerability involves exploiting unvalidated redirects and forwards?

- A) Injection
- \*B) Open Redirect\*
- C) CSRF

- D) XSS

29. What is the potential risk of using third-party libraries in mobile applications?

- A) Improved performance
- \*B) Introduction of vulnerabilities\*
- C) Better user experience
- D) Easier maintenance

30. What is the purpose of a "Content Security Policy" in mobile applications?

- A) Increase load time
- \*B) Prevent XSS attacks\*
- C) Control access to files
- D) Secure API calls

31. Which OWASP vulnerability allows attackers to manipulate application logic through unexpected inputs?

- A) Insecure Data Storage
- B) Insufficient Logging & Monitoring
- \*C) Injection\*
- D) Security Misconfiguration

32. What is the main objective of using a Mobile Application Security Assessment (MASA)?

- A) Improve app design
- B) Analyze network traffic
- \*C) Identify security vulnerabilities\*
- D) Optimize database queries

33. Which method can be used to secure local data on mobile devices?

- \*A) Data encryption\*

- B) Data obfuscation
- C) Network segmentation
- D) Input validation

34. What does the term "Man-in-the-Middle" (MitM) attack refer to?

- \*A) Intercepting communication between two parties\*
- B) Gaining unauthorized access to an app
- C) Altering server responses
- D) Injecting malware into an application

35. Which of the following is a common sign of a broken authentication vulnerability?

- \*A) Session tokens are predictable\*
- B) High server load
- C) Frequent app crashes
- D) Slow response times

36. What does "API security testing" focus on?

- A) User interface design
- \*B) Assessing the security of APIs\*
- C) Performance optimization
- D) Network analysis

37. Which OWASP risk is concerned with security misconfigurations?

- A) Insecure Data Storage
- \*B) Security Misconfiguration\*
- C) Insufficient Logging & Monitoring
- D) Broken Authentication



38. What is the primary purpose of using the "WebView" component in mobile apps?

- \*A) To display web content\*
- B) To handle database transactions
- C) To manage user sessions
- D) To encrypt data

39. What is a common consequence of poor session management?

- A) Improved app performance
- \*B) User account compromise\*
- C) Data loss
- D) Increased load times

40. Which of the following is an example of a static analysis tool for mobile apps?

- A) Burp Suite
- B) Frida
- \*C) Checkmarx\*
- D) Wireshark

41. What does the term "credential stuffing" refer to?

- \*A) Using stolen credentials to gain unauthorized access\*
- B) Encrypting user data

- C) Storing credentials securely
- D) Improving authentication methods

42. Which technique can help prevent reverse engineering of mobile applications?

- A) Using open-source libraries

- B) Writing simple code
- \*C) Code obfuscation\*
- D) Hardcoding sensitive data

43. What is the risk of exposing sensitive APIs in mobile applications?

- A) Increased user engagement
- \*B) Unauthorized data access\*
- C) Improved app functionality
- D) Lower development costs

44. What is a "Cross-Site Request Forgery" (CSRF) attack?

- \*A) Forcing a user to execute unwanted actions on a web application\*
- B) Stealing user credentials
- C) Intercepting network traffic
- D) Injecting malicious scripts

45. Which mobile platform is more susceptible to malware?

- \*A) Android\*
- B) iOS
- C) Windows Mobile
- D) Blackberry

46. What does "security by obscurity" mean?

- A) Using complex algorithms
- B) Hiding vulnerabilities
- \*C) Relying on secrecy for security\*
- D) Ensuring high visibility of security controls

47. What is the purpose of using a VPN for mobile applications?

- A) Increase app performance
- \*B) Secure data transmission over public networks\*
- C) Improve user experience
- D) Bypass network restrictions

48. Which type of testing is performed to identify security vulnerabilities in the backend API?

- A) Static testing
- B) Manual testing
- \*C) API security testing\*
- D) Performance testing

49. What does "clickjacking" vulnerability allow attackers to do?

- A) Steal user credentials
- \*B) Trick users into clicking on malicious links\*
- C) Redirect users to phishing sites
- D) Inject malware into the app

50. Which of the following vulnerabilities involves improper validation of user input?

- \*A) Injection\*
- B) Insecure Data Storage
- C) Broken Access Control
- D) Insufficient Logging & Monitoring

51. What is the primary risk associated with "Insecure Data Storage"?

- A) Increased performance
- \*B) Unauthorized access to sensitive data\*
- C) Data corruption
- D) Poor user experience

52. Which OWASP risk focuses on insufficient logging and monitoring?

- A) Security Misconfiguration
- \*B) Insufficient Logging & Monitoring\*
- C) Sensitive Data Exposure
- D) Broken Authentication

53. What is the potential risk of using HTTP instead of HTTPS for data transmission?

- A) Increased latency
- \*B) Data interception by attackers\*
- C) Reduced app performance
- D) Compatibility issues

54. Which of the following is a common method to secure sensitive data at rest?

- A) Storing data in plain text
- B) Using insecure databases
- \*C) Encrypting data\*
- D) Disabling data storage

55. What is the impact of insecure API design?

- A) Enhanced user experience
- \*B) Increased vulnerability to attacks\*
- C) Reduced server costs
- D) Improved performance

56. What does "reflected XSS" allow attackers to do?

- A) Execute scripts on the server
- \*B) Execute scripts in the user's browser\*
- C) Access sensitive server data

- D) Manipulate database records

57. What is the primary function of "two-factor authentication"?

- A) Increase app speed
- B) Simplify user registration
- \*C) Enhance account security\*
- D) Store user data securely

58. What type of vulnerability is "buffer overflow"?

- A) Input validation
- \*B) Memory corruption\*
- C) Logic flaw
- D) Authentication issue

59. Which OWASP risk involves users being able to perform unauthorized actions?

- A) Security Misconfiguration
- B) Sensitive Data Exposure
- \*C) Broken Access Control\*
- D) Insecure Data Storage

60. What is the primary goal of threat modeling in mobile security?

- A) Optimize app performance
- \*B) Identify potential threats and vulnerabilities\*
- C) Improve user interface design
- D) Reduce development time

61. Which mobile application framework has built-in security features?

- A) Flutter

- B) Ionic
- \*C) React Native\*
- D) Apache Cordova

62. What type of attack is a "Denial of Service" (DoS)?

- A) Data theft
- \*B) Service disruption\*
- C) Unauthorized access
- D) Code injection

63. What is the risk of using outdated third-party libraries in mobile apps?

- A) Enhanced features
- \*B) Vulnerabilities due to known exploits\*
- C) Improved user experience
- D) Reduced app size

64. Which of the following is a technique to prevent SQL Injection?

- \*A) Using prepared statements\*
- B) Input sanitization only
- C) Hardcoding SQL queries
- D) Storing queries in plain text

65. What does "insufficient logging" mean in a mobile application?

- A) Improved performance
- \*B) Lack of audit trails for security incidents\*
- C) Reduced app size
- D) Increased user engagement

66. What is the risk of enabling debug mode in a mobile application?

- A) Improved performance
- \*B) Exposure of sensitive information\*
- C) Reduced battery consumption
- D) Increased security

67. What does the term "API Rate Limiting" refer to?

- A) Allowing unlimited access to APIs
- B) Speeding up API responses
- \*C) Restricting the number of requests to an API\*
- D) Making APIs accessible to all users

68. Which of the following is a common mobile app attack vector?

- A) Physical access to devices
- \*B) Network-based attacks\*
- C) Denial of Service
- D) Social engineering

69. What is the main focus of mobile application hardening?

- \*A) Reducing the attack surface\*
- B) Improving user experience
- C) Enhancing performance
- D) Increasing app size

70. Which vulnerability allows attackers to execute scripts on behalf of users?

- A) SQL Injection
- B) CSRF
- \*C) Cross-Site Scripting (XSS)\*
- D) Clickjacking

71. What is the risk of using sensitive data in URLs?

- A) Improved SEO
- \*B) Data exposure in logs and referrer headers\*
- C) Increased performance
- D) Easier tracking

72. Which of the following is a best practice for securing mobile applications?

- \*A) Regular security updates\*
- B) Using unsecured APIs
- C) Storing sensitive data in plain text
- D) Disabling authentication

73. What is a common method for conducting mobile application security testing?

- A) Manual code review only
- B) User experience testing only
- \*C) Automated and manual testing combined\*
- D) Network testing only

74. What is the impact of enabling insecure permissions in mobile apps?

- A) Improved functionality
- \*B) Increased risk of data breaches\*
- C) Faster app performance
- D) Enhanced user interface

75. Which of the following is an indicator of a successful SQL Injection attack?

- A) Application crashes
- B) Increased latency
- \*C) Unexpected database results\*



- D) User authentication failures

76. What is the main goal of a penetration test on a mobile application?

- A) Improve user interface design
- \*B) Identify security vulnerabilities\*
- C) Optimize performance
- D) Ensure regulatory compliance

77. What does "data at rest" refer to?

- A) Data in transit
- \*B) Stored data on devices\*
- C) Data in memory
- D) Temporary data

78. Which of the following is a consequence of using weak encryption?

- A) Faster processing
- \*B) Data breaches\*
- C) Improved user experience
- D) Increased app size

79. What does "client-side validation" help prevent?

- \*A) Basic input validation\*
- B) SQL Injection
- C) Cross-Site Scripting
- D) Data leakage

80. What is the main concern with hardcoded API keys in mobile apps?

- A) Increased performance

- B) User confusion
- \*C) Unauthorized access to APIs\*
- D) Reduced functionality

81. Which OWASP risk focuses on the improper handling of sensitive data?

- A) Insecure Data Storage
- \*B) Sensitive Data Exposure\*
- C) Security Misconfiguration
- D) Broken Authentication

82. What does the term "physical security" refer to in mobile app security?

- A) Network security
- B) Data encryption
- \*C) Protecting devices from unauthorized access\*
- D) User authentication

83. What is the primary risk of not using secure communication protocols

?

- \*A) Data interception\*
- B) Increased latency
- C) Application crashes
- D) Performance degradation

84. Which of the following is a characteristic of a well-designed API?

- \*A) Proper authentication and authorization\*
- B) Unlimited access
- C) Lack of documentation

- D) Inconsistent responses

85. What is the impact of improper session handling in mobile apps?

- A) Increased user engagement
- \*B) Session hijacking\*
- C) Improved performance
- D) Enhanced security

86. Which technique is used to mitigate CSRF attacks?

- A) User input validation
- \*B) Anti-CSRF tokens\*
- C) Data encryption
- D) Access control

87. What is the primary risk of using an outdated mobile application framework?

- A) Improved performance
- \*B) Exposure to known vulnerabilities\*
- C) Increased user engagement
- D) Reduced development time

88. What does "secure coding practices" help prevent?

- A) User confusion
- \*B) Security vulnerabilities\*
- C) Performance issues
- D) Poor user interface design

89. What is a common tool for API testing in mobile applications?

- A) Wireshark

- B) Nessus
- \*C) Postman\*
- D) Nmap

90. What does the term "data exfiltration" mean?

- A) Data encryption
- \*B) Unauthorized transfer of data\*
- C) Data storage
- D) Data processing

91. Which OWASP vulnerability deals with insufficient input validation?

- A) Insecure Data Storage
- \*B) Injection\*
- C) Broken Access Control
- D) Security Misconfiguration

92. What is the risk of storing sensitive data in the app's local storage?

- \*A) Data theft if the device is compromised\*
- B) Improved app performance
- C) Increased user engagement
- D) Enhanced user experience

93. What is a common sign of a successful CSRF attack?

- \*A) Unauthorized actions performed on behalf of the user\*
- B) Increased app crashes
- C) Slower application performance
- D) User confusion

94. What is the impact of using insecure HTTP methods?

- A) Increased performance
- \*B) Security vulnerabilities\*
- C) Better user experience
- D) Reduced data size

95. What does "session timeout" refer to?

- A) Extended session duration
- \*B) Automatic logout after inactivity\*
- C) Improved performance
- D) Increased user engagement

96. What is the primary goal of data encryption?

- A) Increase app size
- \*B) Protect sensitive data from unauthorized access\*
- C) Improve performance
- D) Enhance user experience

97. Which of the following is an indicator of a poorly designed API?

- A) Comprehensive documentation
- B) Proper authentication
- \*C) Lack of input validation\*
- D) Consistent responses

98. What does "data integrity" ensure?

- A) Faster processing
- B) Improved user experience
- \*C) Accuracy and consistency of data\*
- D) Enhanced performance

99. Which of the following is a common consequence of poor app security?

- A) Increased performance
- \*B) Data breaches\*
- C) Improved user engagement
- D) Enhanced user interface

100. What is the purpose of security awareness training for developers?

- A) Improve coding speed
- B) Enhance user experience
- \*C) Educate about secure coding practices and vulnerabilities\*
- D) Reduce development costs

Feel free to ask if you need more information on any of these topics! Good luck with your quiz preparation!