

قائمة الاسئلة

(40) الامتحان درجة - المعلومات وتكنولوجيا الحاسوب كلية - الكل - سيبراني أمن- الثالث المستوى- mobile and wireless security

- 1) What is the key difference between a passive and an active attack?
 - 1) A) Passive attacks modify data, while active attacks only observe data.
 - 2) + B) Passive attacks observe data, while active attacks modify or disrupt data.
 - 3) C) Both involve modifying data.
 - 4) D) Neither involves modifying data.
- 2) Which of the following is NOT a key component of Wireless Networks?
 - 1) A) Access Point
 - 2) B) Router
 - 3) + C) Ethernet Cable
 - 4) D) Wireless Client
- 3) Which of the following is NOT a key security objective in Wireless Networks?
 - 1) A) Confidentiality
 - 2) B) Integrity
 - 3) + C) Accessibility
 - 4) D) Availability
- 4) Which of the following is a Bluetooth security vulnerability?
 - 1) A) Strong encryption by default
 - 2) + B) Man-in-the-middle attack
 - 3) C) No risk of unauthorized access
 - 4) D) Bluetooth does not support wireless connections
- 5) Which of the following is a procedure for physically securing WLAN?
 - 1) A) Placing access points in open areas
 - 2) B) Using strong passwords only
 - 3) + C) Restricting access to network equipment
 - 4) D) Disabling encryption
- 6) What is a key difference between SSL VPN and IPSec VPN?
 - 1) + A) SSL VPN encrypts only specific applications, while IPSec VPN encrypts entire networks.
 - 2) B) IPSec VPN is faster than SSL VPN in all cases.
 - 3) C) SSL VPN requires complex hardware, while IPSec VPN does not.
 - 4) D) Both provide the same level of security and functionality.
- 7) What does EAP stand for in network authentication?
 - 1) A) Enhanced Authentication Protocol
 - 2) + B) Extensible Authentication Protocol
 - 3) C) Encrypted Access Protection
 - 4) D) External Access Process
- 8) Which of the following is a key component of IPSec?
 - 1) A) Firewall
 - 2) B) VPN Gateway
 - 3) + C) Authentication Header (AH)
 - 4) D) Wi-Fi Router
- 9) Which of the following should be included in a Wireless Security Policy?
 - 1) A) Password complexity requirements
 - 2) B) Allowed and restricted devices
 - 3) C) Encryption methods used
 - 4) + D) All of the above



- 10) What is the difference between Circuit Switching and Packet Switching?
 - 1) + A) Circuit switching establishes a dedicated path, while packet switching sends packets independently.
 - 2) B) Packet switching establishes a dedicated path, while circuit switching sends packets independently.
 - 3) C) Both methods establish dedicated paths for data transmission.
 - 4) D) Neither method is used in modern networking.
- 11) What is the main security vulnerability of 1G cellular networks?
 - 1) A) Strong encryption
 - 2) B) Limited bandwidth
 - 3) + C) Electronic Serial Number (ESN) cloning
 - 4) D) Multi-factor authentication
- 12) What component in GSM stores security-related information like the authentication key (KI) and the IMSI?
 - 1) A) Base Station Controller (BSC)
 - 2) B) Home Location Register (HLR)
 - 3) + C) Subscriber Identity Module (SIM)
 - 4) D) Equipment Identity Register (EIR)
- 13) Which of the following is NOT a security feature of GSM?
 - 1) A) Authentication of registered subscribers
 - 2) B) Secure data transfer using encryption
 - 3) + C) Duplicate SIMs allowed on the network
 - 4) D) Securely stored authentication key (KI)
- 14) In GSM authentication, what algorithm is used to verify the subscriber's identity?
 - 1) A) A5
 - 2) + B) A3
 - 3) C) A8
 - 4) D) COMP128
- 15) Why is Temporary Mobile Subscriber Identity (TMSI) used in GSM?
 - 1) A) To encrypt user data
 - 2) + B) To replace IMSI for anonymity
 - 3) C) To manage network congestion
 - 4) D) To authenticate mobile stations
- What is an improvement in 3G (UMTS) security over GSM?
 - 1) A) No need for encryption
 - 2) + B) Stronger authentication algorithms
 - 3) C) Reduced cryptographic key length
 - 4) D) No encryption used in core networks
- 17) What security feature is introduced in 4G LTE that was not present in GSM?
 - 1) + A) Mutual authentication
 - 2) B) SIM card storage
 - 3) C) A3 authentication algorithm
 - 4) D) Circuit-switched calls
- 18) What type of attack targets LTE's lack of integrity protection in AES-CTR encryption?
 - 1) A) Denial of Service (DoS)
 - 2) B) Crypto-attack
 - 3) + C) aLTEr attack
 - 4) D) SIM swapping
- 19) What is another name for a cellular network?
 - 1) A) Satellite network

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- 2) B) Fiber-optic network
- 3) + C) Mobile network
- 4) D) Bluetooth network
- 20) What was a key feature of 1G cellular networks?
 - 1) A) Digital communication
 - 2) + B) Only for voice communication
 - 3) C) High-speed internet
 - 4) D) Video calling
- 21) Which of the following technologies was introduced in 2G networks?
 - 1) A) Advanced Mobile Phone System (AMPS)
 - 2) + B) GSM/CDMA/Edge
 - 3) C) 4G LTE
 - 4) D) Evolved Packet Core
- 22) What was a major improvement of 3G networks compared to 2G?
 - 1) A) Analog voice transmission
 - 2) B) No support for video calling
 - 3) + C) Introduction of UMTS (Universal Mobile Telecommunications System)
 - 4) D) Limited data services
- 23) What is one of the primary features of 4G LTE networks?
 - 1) A) Support for analog voice calls
 - 2) B) Low-speed data transmission
 - 3) + C) HD video streaming
 - 4) D) Limited user connections
- 24) In 4G LTE architecture, what does the Mobility Management Entity (MME) control?
 - 1) A) Internet browsing
 - 2) + B) Device authentication and mobility control
 - 3) C) Video streaming quality
 - 4) D) Voice call compression
- 25) What is the role of the Packet Data Network (PDN) Gateway (P-GW) in 4G LTE?
 - 1) A) Managing user identities
 - 2) B) Handling handovers between networks
 - 3) + C) Providing internet connectivity
 - 4) D) Encrypting voice calls
- 26) What is the primary purpose of Mobile IP?
 - 1) A) Allow devices to change IP addresses frequently
 - 2) + B) Ensure seamless and continuous internet connectivity while moving between networks
 - 3) C) Reduce data consumption in mobile devices
 - 4) D) Prevent unauthorized network access
- 27) Security audits help organizations?
 - 1) A) Identify security loopholes
 - 2) B) Create new security policies
 - 3) C) Track the effectiveness of security strategies
 - 4) + D) All of the above
- 28) Which of the following is an example of an external security audit?
 - 1) A) Conducted by the internal IT team
 - 2) + B) Performed by an outside organization
 - 3) C) Checking employees' computer screens manually
 - 4) D) Running an antivirus scan
- 29) What is the primary purpose of a security audit?

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- 1) A) To track employee attendance
- 2) + B) To evaluate an information system's security
- 3) C) To monitor financial transactions
- 4) D) To install new security software
- 30) Which of the following is a common wireless security auditing tool?
 - 1) A) Microsoft Word
 - 2) + B) Wireshark
 - 3) C) Google Chrome
 - 4) D) Adobe Photoshop
- 31) MAC addresses change every time a device connects to a network
 - 1) True
 - 2) + Fales
- 32) Using VPNs over public Wi-Fi improves security
 - 1) + True
 - 2) Fales
- 33) WPA3 is less secure than WPA2.
 - 1) True
 - 2) + Fales
- 34) SSID cloaking completely hides a Wi-Fi network from attackers.
 - 1) True
 - 2) + Fales
- 35) Rogue access points can be used to perform man-in-the-middle attacks
 - 1) + True
 - 2) Fales
- 36) IMSI is a permanent subscriber identity that can never change.
 - 1) True
 - 2) + Fales
- 37) Public key cryptography requires two keys: one public and one private.
 - 1) + True
 - 2) Fales
- 38) Firewalls prevent all cyberattacks.
 - 1) True
 - 2) + Fales
- 39) Security audits help identify weaknesses in a system.
 - 1) + True
 - 2) Fales
- 40) GSM authentication relies on the A3 algorithm
 - 1) + True
 - 2) Fales