2	Which of the following is a common teacher
1	to prevent Cross-Site Scripting (XSS) attacks:
	a. Cross-Origin Resource Sharing (CORS)
	b. Content Security Policy (CSP)
	c. Secure Sockets Layer (SSL)
	d. Session Cookies
3	3. What does CSRF stand for in the context of

- web security?
 - a Cross-Site Request Forgery b. Cross-Site Scripting Fraud
 - c. Cross-Site Resource Falsification
 - d. Counter-Strike Rapid Firewall
- 4. Which HTTP response status code indicates a successful request in the 2xx range?

a/200 OK 404 Not Found c. 500 Internal Server Error

- d. 302 Found
- 5. What is the purpose of a CAPTCHA in web security?
 - a. Data encryption
 - b. User authentication
 - .c. Prevention of automated bots-
 - d. Cross-site scripting protection
- 6. Which of the following is not a common authentication factor?
 - a. Something you know
 - b. Something you have
 - c. Something you are
 - d Something you want
- 7. What is the primary purpose of a WAF (Web Application Firewall) in web security?
 - a. Network monitoring
 - b. Malware detection
 - contrusion prevention for web applications
 - d. DNS filtering
- 8. Which HTTP method is considered unsafe and should not be used for sensitive operations due to its idempotent nature?

. a. GET

b, POST

c. DELETE

- d. PUT
- 9. What is the purpose of a nonce in web security protocols like OAuth?
 - a. Cryptographic hashing
 - b Random number generation
 - c. Data encryption
 - d. Session management

Unit-IV

- 1. What is the primary purpose of HTTPS in web communication? b. Data encryption
 - a. High performance

d. Caching

c. Content compression

- 10. Which security mechanism helps protect against SQL injection attacks in web applications?
 - a. Secure Sockets Layer (SSL)
 - b. Content Security Policy (CSP)
 - CInput validation
 - d. Cross-Origin Resource Sharing (CORS)
- 11. What is the primary purpose of SSL in web communication?
 - a. Data compression
- No. Data encryption
- c. Session tracking
- d. DNS resolution
- 12. Which protocol does SSL typically operate over to provide a secure communication channel?
 - a. HTTP
- 1b. TCP
- c. UDP
- d. FTP
- 13. Which layer of the OSI model does SSL/TLS operate in?
 - a. Application layer
- b. Transport layer
- c. Network layer
- d. Data link layer
- 14. What is the successor of SSL and the current standard for secure communication on the web?
 - * TLS (Transport Layer Security)
 - b. HTTP/2
 - c. IPsec (Internet Protocol Security)
 - d. SSH (Secure Shell)
- 15. Which type of cryptographic key is used in the SSL handshake process to establish a secure connection?
 - a. Public key
- b. Private key
- c Session key
- d. Master key
- 16. Which SSL/TLS handshake step involves the server sending its digital certificate to the client?
 - a. Key exchange
- b. Server hello
- c/Certificate verify
- d. Client hello
- 17. In SSL/TLS, what is the purpose of the Certificate Authority (CA)?
 - a. Encrypting data
 - b. Verifying server identity
 - c. Managing session keys
 - d. Handling DNS resolution
- 18. Which cipher suite is considered more secure in SSL/TLS?
 - a. DES (Data Encryption Standard)
 - b. RC4 (Rivest Cipher 4)
 - AES (Advanced Encryption Standard)
 - d. 3DES (Triple Data Encryption Standard)

- 19. What is the purpose of the SSL/TLS record layer?
 - a. Key exchange
 - b. Compression
 - Encryption and integrity
 - d. Session resumption
- 20. Which HTTP status code indicates that the communication is over a secure SSL/TLS connection?
 - 200 OK
 - b. 301 Moved Permanently
 - c. 403 Forbidden
 - d. 404 Not Found
- 21. What is the primary purpose of TLS in communication over the internet?
 - a. Data Compression
- b. Data encryption
- c. IP address resolution
- d. Session tracking
- 22. Which version of TLS is the successor to SSL 3.0?
 - a. TLS 1.0
- b. TLS 1.1
- c. TLS 1.2
- d. TLS 1.3
- 23. In the TLS handshake process, which message type does the client send to the server to initiate the key exchange?
 - a. Client hello
- b. Server hello
- c. Certificate
- d, Finished
- 24. Which protocol layer does TLS operate on in the OSI model?
 - a. Application layer
- b. Transport layer
- c. Network ILayer
- d. Data link layer
- 25. What is the purpose of the 'change cipher spec' message in the TLS handshake?
 - a To indicate the end of the handshake
 - b. To change the encryption algorithm
 - c. To request a new session key
 - d. To verify the server's digital certificate
- 26. Which cryptographic algorithm is commonly used for key exchange in TLS?
 - Na. RSA

b. AES

c. DES

- d. HMAC
- 27. What is the purpose of the 'finished' message in the TLS handshake?
 - a. To confirm the server's identity
 - b. To exchange session keys
 - co To verify the integrity of the handshake
 - d. To request data compression

Computer Network Security

- 28. In TLS, what is the purpose of the Hello Retry Request (HRR) message?
 - a. Request a new session key
 - b. Request a digital certificate from the client
 - c. Indicate a change in the encryption algorithm
 - Request the client to renegotiate the handshake
- 29. Which version of TLS introduced the concept of 'forward secrecy'?
 - a. TLS 1.0

b. TLS 1.1

c. TLS 1.2

TLS 1.3

- 30. What is the purpose of the TLS record layer in the TLS protocol?
 - a. Key exchange
 - b. Compression
 - c. Encryption and integrity
 - d. Session resumption
- 31. What is the primary goal of Secure Electronic Transactions (SET)?
 - a. Secure data storage
 - b. Secure online communication
 - c Secure financial transaction
 - d. Secure social media interactions
- 32. Which organisation developed the SET protocol to enhance the security of electronic payments?
 - a. World Wide Web Consortium (W3C)
 - b. Internet Engineering Task Force (IETF)
 - Mastercard and visa
 - d. Electronic Frontier Foundation (EFF)
- 33. In SET, what is the primary function of the Certificate Authority (CA)?
 - a. Encryption of transaction data
 - b. Generation of digital signatures
 - ssuing digital certificates
 - d. Handling payment authorisation
- 34. What cryptographic technique is commonly used in SET to ensure the confidentiality and integrity of transaction data?
 - RSA encryption
 - b. SHA-256 hashing
 - c. Triple DES (3DES)
 - d. Elliptic Curve Cryptography (ECC)
- 35. What SET component is responsible for verifying the identity of the parties involved in an electronic transaction?
 - a. Payment gateway
 - b. Digital wallet
 - c. Secure Socket Layer (SSL)
 - M Digital certificate

- 36. In SET, what is the purpose of the payment 'gateway?
 - a. Encrypting transaction data
 - b. Facilitating communication between parties
 - c. Issuing digital certificates
 - d. Authorising payment transactions
- 37. What is the role of the digital wallet in the SET protocol?
 - a. Encrypting credit card numbers
 - b. Storing digital certificates
 - c. Facilitating payment authorisation
 - d. Verifying merchant identities
- 38. What SET message is used to request payment authorisation from the cardholder's bank?
 - Authorisation request
 - b. Payment acknowledgement
 - c. Payment confirmation
 - d. Payment response
- 39. Which SET entity ensures the confidentiality of the cardholder's payment information during a transaction?
 - a. Acquiring bank
 - b. Issuing bank
 - c. Merchant
 - d Payment gateway
- 40. What security feature in SET allows the cardholder to dispute an unauthorised transaction and receive a refund?
 - a. Digital signature
 - b. Chargeback protection
 - c. Payment confirmation
 - d. Authentication token