

# Cryptography And Network Security Multiple Choice Questions With Answer

Cryptography And Network Security Multiple Choice Questions With Answer Cryptography and Network Security Multiple Choice Questions with Answers This resource provides a comprehensive set of multiple choice questions MCQs covering essential concepts in cryptography and network security The MCQs are designed to test your understanding of fundamental principles algorithms protocols and realworld applications Each question comes with a detailed explanation of the correct answer helping you reinforce your learning and identify areas for improvement Cryptography Network Security Multiple Choice Questions MCQs Algorithms Protocols Security Threats Cybersecurity Digital Security Privacy Confidentiality Integrity Availability This document presents a collection of MCQs covering a wide range of topics in cryptography and network security The questions are organized into sections based on the concepts they address making it easy for you to focus on specific areas of interest Each MCQ is followed by a detailed explanation of the correct answer highlighting key concepts and offering insights into the reasoning behind the solution This comprehensive format aims to strengthen your understanding of cryptography and network security principles and prepare you for various assessments and realworld challenges

MCQs 1 Which of the following is NOT a core principle of cryptography a Confidentiality b Integrity c Availability d Authentication Answer c Availability Explanation The core principles of cryptography focus on protecting the confidentiality integrity and authenticity of data Availability while crucial for secure systems is not a direct focus of cryptography

2 Which type of cryptography uses a single key for both encryption and decryption a Asymmetric cryptography b Symmetric cryptography c Hashing d Digital signatures Answer b Symmetric cryptography Explanation Symmetric cryptography relies on a single shared key for both encryption and decryption Examples include AES and DES

3 What is the main purpose of a digital certificate a Encrypting data b Signing digital documents c Verifying the identity of a website or individual d Generating random numbers Answer c Verifying the identity of a website or individual Explanation Digital certificates are used to bind a public key to a specific entity allowing verification of their identity They are essential for secure communication and transactions online

4 Which of the following is a common type of network attack that exploits vulnerabilities in software applications a Maninthemiddle attack b Denial of service

attack c SQL injection d Brute force attack Answer c SQL injection Explanation SQL injection attacks exploit vulnerabilities in web applications to manipulate backend databases potentially allowing attackers to gain access to sensitive information or modify data 5 Which cryptographic algorithm is commonly used for secure communication on the internet a RSA b SHA256 3 c AES d MD5 Answer c AES Explanation AES Advanced Encryption Standard is a widely adopted symmetric encryption algorithm used for securing data in transit and at rest It is employed by various protocols like TLSSSL for secure web communication 6 What is the purpose of a firewall in a network a Encrypting network traffic b Detecting and preventing unauthorized access c Encrypting data at rest d Analyzing network traffic for malicious activity Answer b Detecting and preventing unauthorized access Explanation Firewalls act as a barrier between your network and the outside world inspecting incoming and outgoing traffic and blocking unauthorized access based on predefined rules 7 Which of the following is an example of a strong password a Password123 b MyBirthday1990 c 123 d 123456 Answer c 123 Explanation Strong passwords are complex and unpredictable combining uppercase and lowercase letters numbers and special characters 8 What is the role of a hash function in cryptography a Encrypting data b Generating digital signatures c Creating unique fingerprints of data d Authenticating users Answer c Creating unique fingerprints of data Explanation Hash functions generate a fixedsize hash value fingerprint for any input data 4 This value is unique to the data and changes if the data is altered ensuring data integrity 9 Which type of attack attempts to guess a password by trying all possible combinations a Phishing b Brute force attack c Maninthemiddle attack d Denial of service attack Answer b Brute force attack Explanation Brute force attacks systematically try every possible password combination until the correct one is found 10 What is the difference between a virus and a worm a Viruses require user interaction to spread while worms can propagate autonomously b Viruses can replicate while worms cannot c Worms are more harmful than viruses d Viruses target only operating systems while worms target applications Answer a Viruses require user interaction to spread while worms can propagate autonomously Explanation Viruses require a user to open an infected file or email to spread Worms however can spread independently through network vulnerabilities or by exploiting open ports 11 Which protocol is commonly used for secure email communication a HTTP b FTP c SMTP d TLSSSL Answer d TLSSSL Explanation TLSSSL Transport Layer SecuritySecure Sockets Layer is a cryptographic protocol that secures communication between email servers and clients ensuring confidentiality and integrity of email content 12 What is the purpose of a VPN Virtual Private Network a Encrypting all internet traffic 5 b Providing a secure connection over a public network c Accessing restricted websites d Sharing files between devices Answer b Providing a secure connection over a public network Explanation VPNs create a secure tunnel over a public network encrypting all traffic and masking the users IP address providing privacy and security 13 Which of the following is a common vulnerability





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