**GEETHANJALI INSTITUTE OF SCIENCE & TECHNOLOGY**
(AN AUTONOMOUS INSTITUTION)
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(Accredited by NAAC with "A" Grade, NBA (EEE,ECE &ME) & ISO9001:2008CertifiedInstitution)

**QUESTIONBANK(DESCRIPTIVE)**

**Subject Name with Code: (22A3706T)**

**Course & Branch: B.TECH CSE(CS)**        **Year& Semester: III-II Regulation: RG22**

# UNIT - I

| S.No. | Question | [BT Level] [CO][ Marks] |
|---|---|---|
| **2 Marks Questions (Short)** | | |
| 1. | What is OSINT? | L1/CO1/2M |
| 2. | Describe the primary purpose of Port Scanning? | L2/CO1/2M |
| 3. | What are Nessus Policies? | L1/CO1/2M |
| 4. | What do you mean by traffic Capturing? | L1/CO1/2M |
| 5. | Discuss Nessus Policies? | L2/CO1/2M |
| 6. | Discuss WHOIS? | L2/CO1/2M |
| 7. | Illustrate the different Web Application Vulnerabilities? | L3/CO1/2M |
| 8. | Solve client-side exploitation? | L3/CO1/2M |
| 9. | Predict the different types DNS Lookup Tools? | L3/CO1/2M |
| 10. | Apply the various Common Tools for Port Scanning? | L3/CO1/2M |
| **Descriptive Questions (Long)** | | |
| 11. | Discuss Open Source Intelligence (OSINT). What are offensive and defensive OSINT search resources with example? | L2/CO1/12M |
| 12. | Discuss the different types of port scanning techniques and their implications in network security. | L2/CO1/12M |
| 13. | What are Nessus Policies, and how do they contribute to effective vulnerability management? | L1/CO1/12M |
| 14. | Describe Web Application Scanning Manual Analysis? | L2/CO1/12M |
| 15. | Explain how a Cross-Site Scripting (XSS) attack targets the client side of a web application. | L1/CO1/12M |

# UNIT - II

| S.No. | Question | [BT Level] [CO][ Marks] |
|---|---|---|
| **2 Marks Questions (Short)** | | |
| 1. | Illustrate the main difference between wired and wireless communication in terms of security? | L3/CO2/2M |
| 2. | Apply the purpose of WPA2 in wireless security? | L3/CO2/2M |
| 3. | Illustrate the role of encryption in wireless security? | L3/CO2/2M |
| 4. | Solve the Wireless Denial of Service (DoS) Attacks? | L3/CO2/2M |
| 5. | What is a buffer overflow? | L1/CO2/2M |
| 6. | Solve the deauthentication attack in the context of wireless DoS attacks? | L3/CO2/2M |
| 7. | Apply the port scanning, and how can it be exploited? | L3/C02/2M |
| 8. | Apply the Common Web Scanning Tools? | L3/CO3/2M |
| 9. | Explain client-side exploitation? | L1/CO3/2M |
| 10. | Illustrate How does WPA3 improve security over WPA2? | L3/CO3/2M |
| **Descriptive Questions (Long)** | | |
| 11. | Discuss the different types of password attacks and the measures to mitigate them. | L2/CO2/12M |
| 12. | Apply client-side exploitation and its significance in cyber security? | L3/CO2/12M |

| 13. | Discuss the methods and techniques used in social engineering attacks, and how to defend against them? | L2/CO2/12M |
|---|---|---|
| 14. | Describe the concept of bypassing antivirus applications and the techniques used to evade detection? | L2/CO3/12M |
| 15. | Apply are various techniques for Bypassing Antivirus? Explain any FIVE techniques with examples? | L3/CO2/12M |
| 16. | Describe the purpose and functionality of Metasploit payloads in penetration testing? | L2/CO3/12M |
| 17. | Apply the purpose and process of port scanning, and how attackers use it to identify potential targets? | L3/CO2/12M |

# UNIT - III

| S.No. | Question | [BT Level] [CO][ Marks] |
|---|---|---|
| **2 Marks Questions (Short)** | | |
| 1. | What is the primary security difference between wired and wireless communication? | L1/CO4/2M |
| 2. | Illustrate are Privacy Protocols in wireless security? | L3/CO4/2M |
| 3. | What is WPA2, and why is it important in wireless security? | L1/CO4/2M |
| 4. | Illustrate the main purpose of encryption in wireless security? | L3/CO4/2M |
| 5. | What is a Wireless Denial of Service (DoS) attack? | L1/CO4/2M |
| 6. | What is a deauthentication attack in wireless security? | L1/CO4/2M |
| 7. | Apply the difference between WPA and WEP in terms of security? | L3/CO4/2M |
| 8. | Solve the Wireless DoS attacks be mitigated? | L3/CO4/2M |
| 9. | Apply the Wireless Frame Generation? | L3/CO4/2M |
| 10. | Describe the tool commonly used for cracking wireless encryption? | L2/CO4/2M |
| **Descriptive Questions (Long)** | | |
| 11. | Illustrate and contrast the security aspects of wired and wireless communication? | L3/CO4/12M |
| 12. | Discuss the importance of privacy protocols in wireless security and provide examples of commonly used protocols? | L2/CO4/12M |
| 13. | Describe common encryption techniques used in wireless security and their role in protecting data? | L2/CO4/12M |
| 14. | Justify the concept of Wireless Denial of Service (DoS) attacks and their impact on wireless networks? | L3/CO4/12M |
| 15. | Explain the importance of secure configuration and management of wireless access points (APs) in preventing security breaches? | L2/CO4/12M |

# UNIT - IV

| S.No. | Question | [BT Level] [CO][ Marks] |
|---|---|---|
| **2 Marks Questions (Short)** | | |
| 1. | What is the Simple Mail Transfer Protocol (SMTP) used for? | L2/CO5/2M |
| 2. | What is a common vulnerability associated with SMTP? | L2/CO5/2M |
| 3. | Use the File Transfer Protocol (FTP) used for? | L3/CO5/2M |
| 4. | What is a major security risk of using FTP? | L2/CO5/2M |
| 5. | Discuss the Trivial File Transfer Protocol (TFTP) primarily used for? | L2/CO5/2M |
| 6. | Evaluate the TFTP considered in secure? | L3/CO5/2M |
| 7. | What is the Hyper Text Transfer Protocol (HTTP) used for | L2/CO5/2M |
| 8. | What is a common vulnerability in HTTP? | L2/CO5/2M |
| 9. | What is a DNS spoofing attack? | L2/CO5/2M |
| 10. | What is a SYN flood attack? | L2/CO5/2M |
| **Descriptive Questions (Long)** | | |
| 11. | What is DNS? What are the services provided by DNS and explain how it works? | L2/CO5/12M |
| 12. | Write short notes on the following: | L2/CO5/12M |

| | a) FTP        b) TFTP? | |
|---|---|---|
| 13. | What is electronic E-mail? Describe in brief about hacking of system using virus attack using SMTP? | L2/CO5/12M |
| 14. | Calculate the Dynamic Host Configuration Protocol (DHCP)? | L3/CO5/12M |
| 15. | Illustrate the Light Weight Directory Access Protocol (LWDAP)? | L3/CO5/12M |
| 16. | Categorize about the operational model of HTTP and HTTPS? | L3/CO5/12M |
| 17. | Discuss about Simple Network Management Protocol (SNMP) with example? | L2/CO5/12M |

# UNIT - V

| S.No. | Question | [BT Level] [CO][ Marks] |
|---|---|---|
| **2 Marks Questions (Short)** | | |
| 1. | What is the purpose of a traceroute? | L2/CO6/2M |
| 2. | Use The NeoTrace  How to help in network diagnostics? | L3/CO6/2M |
| 3. | What is Whatweb used for in web security? | L2/CO6/2M |
| 4. | What is Access Control in database systems? | L2/CO6/2M |
| 5. | What is Inference Control in the context of database security? | L2/CO6/2M |
| 6. | What is Multilevel Database Security? | L1/CO6/2M |
| 7. | What is the primary function of a database firewall? | L1/CO6/2M |
| 8. | What is Role-Based Access Control (RBAC) in database systems? | L2/CO6/2M |
| 9. | What is an SQL injection attack, and how does it impact databases? | L1/CO6/2M |
| 10. | What is the significance of encryption in database security? | L1/CO6/2M |
| **Descriptive Questions (Long)** | | |
| 11. | Explain following with example<br><br>a) Traceroutes  b) Neotrace? | L2/CO6/12M |
| 12. | Explain following with example<br><br>A}Whatweb   b)Use in Security | L2/CO6/12M |
| 13. | What do you mean by Database security? Explain why it is so important for organizatio? | L2/CO6/12M |
| 14. | Discuss the various Access control in database systems with examples? | L2/CO6/12M |
| 15. | Write a short notes on:<br><br>a) Inference Control DBMS.<br><br>b) Multi level database security? | L2/CO6/12M |

**Signature of the Staff: A. Ramesh**


**Signature of Department Academic Committee Member 1:**


**Signature of Department Academic Committee Member 2:**

**Signature of Department Academic Committee Member 3:**