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| LOGO.jpg | **GEETHANJALI INSTITUTE OF SCIENCE & TECHNOLOGY**  (**AN AUTONOMOUS INSTITUTION**)  **(Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu)**  **(Accredited by NAAC with “A” Grade, NBA (EEE,ECE &ME) & ISO9001:2008CertifiedInstitution)** |
| **QUESTIONBANK(DESCRIPTIVE)**  **Subject Name with Code: (22A3706T)**  **Course & Branch: B.TECHCSE(CS) Year& Semester: III-II Regulation: RG22** | |

**UNIT - I**

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| **S.No.** | **Question** | **[BT Level] [CO][ Marks]** |
| **2 Marks Questions (Short)** | | |
|  | What is OSINT? | L1/CO1/2M |
|  | Describe the primary purpose of Port Scanning? | L2/CO1/2M |
|  | What are Nessus Policies? | L1/CO1/2M |
|  | What do you mean by traffic Capturing? | L1/CO1/2M |
|  | Discuss Nessus Policies? | L2/CO1/2M |
|  | Discuss WHOIS? | L2/CO1/2M |
|  | Illustrate thedifferent Web Application Vulnerabilities? | L3/CO1/2M |
|  | Solve client-side exploitation? | L3/CO1/2M |
|  | Predict the different types DNS Lookup Tools? | L3/CO1/2M |
|  | Apply the various Common Tools for Port Scanning? | L3/CO1/2M |
| **Descriptive Questions (Long)** | | |
|  | Discuss Open Source Intelligence (OSINT). What are offensive and defensive OSINT search resources with example? | L2/CO1/10M |
|  | Discuss the different types of port scanning techniques and their implications in network security. | L2/CO1/10M |
|  | What are Nessus Policies, and how do they contribute to effective vulnerability management? | L1/CO1/10M |
|  | Describe Web Application Scanning Manual Analysis? | L2/CO1/10M |
|  | Explain how a Cross-Site Scripting (XSS) attack targets the client side of a web application. | L1/CO1/10M |
|  | Explain in details about networking for traffic capturing using Wireshark in Kali Linux? | L1/CO1/10M |
|  | Describe Web Application Scanning Manual Analysis? | L2/CO1/10M |
|  | Write a short notes on:  a) Nessus Policies  b) Google hacking database (GHDB). | L2/CO1/10M |

**UNIT - II**

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| **S.No.** | **Question** | **[BT Level] [CO][ Marks]** |
| **2 Marks Questions (Short)** | | |
|  | Discuss Java Zero day vulnerability. | L3/CO2/2M |
|  | Describe Social Engineering Attacks? | L3/CO2/2M |
|  | What are Various Techniques for Bypassing Antivirus? | L3/CO2/2M |
|  | What is Exploit of Software Vulnerabilities? | L3/CO2/2M |
|  | What is a buffer overflow? | L1/CO2/2M |
|  | Describe Rainbow Tables? | L3/CO2/2M |
|  | What is Exploit? | L3/C02/2M |
|  | Describe the SQL injection attack ? | L3/CO3/2M |
|  | Explain client-side exploitation? | L1/CO3/2M |
|  | Explain the Backtrack? | L3/CO3/2M |
| **Descriptive Questions (Long)** | | |
|  | a)Explain the online and offline password attack with example?  b) Describe Social Engineering Attacks and prevention in details? | L2/CO2/10M |
|  | Apply client-side exploitation and its significance in cyber security? | L3/CO2/10M |
|  | Discuss the methods and techniques used in social engineering attacks, and how to defend against them? | L2/CO2/10M |
|  | Describe the concept of bypassing antivirus applications and the techniques used to evade detection? | L2/CO3/10M |
|  | Apply are various techniques for Bypassing Antivirus? Explain any FIVE techniques with examples? | L3/CO2/10M |
|  | Describe the purpose and functionality of Metasploit payloads in penetration testing? | L2/CO3/10M |
|  | Apply the purpose and process of port scanning, and how attackers use it to identify potential targets? | L3/CO2/10M |
|  | Explain in details about networking for traffic capturing using Wireshark in Kali Linux? | L2/CO2/10M |
|  | What is Buffer Overflow? Explain why it is more harmful for organization with C language program? | L1/CO2/10M |

**UNIT - III**

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| **S.No.** | **Question** | **[BT Level] [CO][ Marks]** |
| **2 Marks Questions (Short)** | | |
|  | What is the primary security difference between wired and wireless communication? | L1/CO4/2M |
|  | Illustrate are Privacy Protocols in wireless security? | L3/CO4/2M |
|  | What is WPA2, and why is it important in wireless security? | L1/CO4/2M |
|  | Illustate the main purpose of encryption in wireless security? | L3/CO4/2M |
|  | What is a Wireless Denial of Service (DoS) attack? | L1/CO4/2M |
|  | What is a deauthentication attack in wireless security? | L1/CO4/2M |
|  | Apply the difference between WPA and WEP in terms of security? | L3/CO4/2M |
|  | Solve the Wireless DoS attacks be mitigated? | L3/CO4/2M |
|  | Apply the Wireless Frame Generation? | L3/CO4/2M |
|  | Describe the tool commonly used for cracking wireless encryption? | L2/CO4/2M |
| **Descriptive Questions (Long)** | | |
|  | Compare and contrast the security aspects of wired and wireless communication? | L2/CO4/10M |
|  | Discuss the importance of privacy protocols in wireless security and provide examples of commonly used protocols? | L3/CO4/10M |
|  | Describe common encryption techniques used in wireless security and their role in protecting data? | L2/CO4/10M |
|  | Explain the concept of Wireless Denial of Service (DoS) attacks and their impact on wireless networks? | L4/CO4/10M |
|  | Explain the importance of secure configuration and management of wireless access points (APs) in preventing security breaches? | L2/CO4/10M |

**UNIT - IV**

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| **S.No.** | **Question** | **[BT Level] [CO][ Marks]** |
| **2 Marks Questions (Short)** | | |
|  | What is the Simple Mail Transfer Protocol (SMTP) used for? | L4/CO5/2M |
|  | What is a common vulnerability associated with SMTP? | L2/CO5/2M |
|  | What is the File Transfer Protocol (FTP) used for**?** | L4/CO5/2M |
|  | What is a major security risk of using FTP? | L2/CO5/2M |
|  | What is the Trivial File Transfer Protocol (TFTP) primarily used for? | L3/CO5/2M |
|  | Why is TFTP considered insecure? | L2/CO5/2M |
|  | What is the HyperText Transfer Protocol (HTTP) used for | L3/CO5/2M |
|  | What is a common vulnerability in HTTP? | L2/CO5/2M |
|  | What is a DNS spoofing attack? | L2/CO5/2M |
|  | What is a SYN flood attack? | L2/CO5/2M |
| **Descriptive Questions (Long)** | | |
|  | What is DNS? What are the services provided by DNS and explain how it works? | L2/CO5/10M |
|  | Write short notes on the following:  a)FTP b) TFTP? | L2/CO5/10M |
|  | What is electronic E-mail? Describe in brief about hacking of system using virus attack using SMTP? | L2/CO5/10M |
|  | Dynamic Host Configuration Protocol(DHCP)? | L2/CO5/10M |
|  | Light Weight Directory Access Protocol(LWDAP)? | L2/CO5/10M |
|  | Briefly discuss about the operational model of HTTP and HTTPS? | L2/CO5/10M |
|  | Explain about Simple Network Management Protocol (SNMP) with example? | L2/CO5/10M |

**UNIT - V**

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

**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:**