**20CB505**

**Hall Ticket Number:**

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| **III/IV B.Tech (Regular) DEGREE EXAMINATION** | | | |
| **February,2023** | **Cyber Security** | | |
| **Fifth Semester** | **Ethical Hacking and Social Engineering** | | |
| **Time:** Three Hours | | **Maximum: 7**0 Marks | |
| *Answer Question No. 1 Compulsorily.* | | | (14X1 = 14 Marks) |
| *Answer* ***ANY ONE*** *question from each Unit.* | | | (4X14=56 Marks) |

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| 1. | a) | State the importance of Ethical Hacking | CO1 | L2 | 1M |
|  | b) | List the types of Ethical Hacking | CO1 | L1 | 1M |
|  | c) | Recall the objectives of footprinting | CO1 | L1 | 1M |
|  | d) | What does pwd command in meterpreter return | CO2 | L1 | 1M |
|  | e) | What is a Zero-day attack | CO2 | L1 | 1M |
|  | f) | Describe about payloads in Ethical Hacking | CO2 | L2 | 1M |
|  | g) | What is Mod\_Security used for? | CO3 | L2 | 1M |
|  | h) | Describe how man-in-the-middle attack can be carried out | CO3 | L2 | 1M |
|  | i) | What is a DDOS attack | CO3 | L1 | 1M |
|  | j) | Outline the countermeasures deployed against social engineering | CO3 | L2 | 1M |
|  | k) | List any two types of malware | CO4 | L1 | 1M |
|  | l) | What is a botnet | CO4 | L1 | 1M |
|  | m) | Define trust factor | CO4 | L2 | 1M |
|  | n) | What is Identity Theft | CO4 | L1 | 1M |
| **Unit -I** | | | | | |
| 2. | a) | Interpret the different categories of hackers and their impact on an organization | CO1 | L2 | 7M |
|  | b) | Compare the two categories of footprinting with necessary examples highlighting the different kinds of information that can be collected about a target | CO1 | L4 | 7M |
|  |  | **(OR)** |  |  |  |
| 3. | a) | List the benefits and limitations of Ethical hacking | CO1 | L2 | 7M |
|  | b) | State few examples of tools used for footprinting. Identify some countermeasures that can be employed against footprinting | CO1 | L1 | 7M |
|  |  | **Unit -II** |  |  |  |
| 4. | a) | Explain briefly about various commands used in meterpreter shell | CO2 | L3 | 7M |
|  | b) | Discuss about picking an exploit in Metasploit | CO2 | L2 | 7M |
|  |  | **(OR)** |  |  |  |
| 5. | a) | Enumerate the role played by Metasploit in Ethical Hacking and describe about setting exploit options in Metasploit | CO2 | L1 | 7M |
|  | b) | Illustrate the steps involved in installing and using Veil | CO2 | L3 | 7M |
|  |  | **Unit -III** | |  |  |
| 6. | a) | Illustrate the steps involved in downloading and installing DVWA | CO3 | L3 | 7M |
|  | b) | Define SQL injection and Explain different types of SQL injection attacks. | CO3 | L2 | 7M |
|  |  | **(OR)** |  |  |  |
| 7. | a) | List and explain the different countermeasures used against Session Hijacking | CO3 | L1 | 7M |
|  | b) | Explain the role played by Mod\_Security firewall in safeguarding web applications | CO3 | L2 | 7M |
|  |  | **Unit -IV** |  |  |  |
| 8. | a) | Summarize Computer based Social Engineering in detail | CO4 | L2 | 7M |
|  | b) | What are Human Based Social Engineering attacks? Enumerate the risks posed by social engineering for an organization | CO4 | L2 | 7M |
|  |  | **(OR)** |  |  |  |
| 9. | a) | What are the preventive measures should be taken to secure data from Social Engineering attacks. | CO4 | L2 | 7M |
|  | b) | Illustrate the phases that are involved in social engineering attack cycle | CO4 | L3 | 7M |

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