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| **Hall Ticket Number: 20CS703/JO**   |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | | **IV/IV B.Tech (Regular)DEGREE EXAMINATION** | | | | **January, 2024** | **Computer Science and Engineering** | | | **Seventh Semester** | **Cyber Security** | | | **Time: Three Hours** | | **Maximum:70 Marks** | |  |
| |  |  | | --- | --- | | ***Answer question 1 compulsory.*** | **(14X1 = 14 Marks)** | | ***Answer one question from each unit.*** | **(4X14=56 Marks)** | |  |  | |  |

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|  |  | |  | **CO** | | **BL** | | **M** |
| 1. | a) | | Define Cyber Security? | CO1 | | L1 | | 1M |
|  | b) | | Define Vulnerability? | CO1 | | L1 | | 1M |
|  | c) | | Define Hacking? | CO1 | | L1 | | 1M |
|  | d) | | Define Information gathering? | CO2 | | L1 | | 1M |
|  | e) | | Why do you need a firewall? | CO2 | | L1 | | 1M |
|  | f) | | Define DVWA? | CO2 | | L1 | | 1M |
|  | g) | | Define Spyware? | CO3 | | L1 | | 1M |
|  | h) | | Compare Horizontal and Vertical Privilege Escalation? | CO3 | | L2 | | 1M |
|  | i) | | What are the different ways a Malware can get into the System? | CO3 | | L1 | | 1M |
|  | j) | | What is Denial of Service attack? | CO3 | | L1 | | 1M |
|  | k) | | What are the most common input validation attacks? | CO4 | | L1 | | 1M |
|  | l) | | What is the effect of Improper error handling? | CO4 | | L1 | | 1M |
|  | m) | | Illustrate Security misconfiguration? | CO4 | | L2 | | 1M |
|  | n) | | Define Input Validation? | CO4 | | L1 | | 1M |
|  | | **Unit –I** | | | | | | |
| 2. | a) | | Explain about hacking and hacker classes? | CO1 | | L2 | | 7M |
|  | b) | | Explain briefly about hacking phases? | CO1 | | L2 | | 7M |
|  | | **(OR)** | | | | | | |
| 3. | a) | | What is Penetration Testing? Explain phases & types of pen testing? | CO1 | L2 | | 7M | |
|  | b) | | Explain about top Information Security Attack Vectors? | CO1 | L2 | | 7M | |
|  | | **Unit –II** | | | | | | |
| 4. | a) | | Explain about Recon-ng and Netdiscover information gathering tool? | CO2 | L2 | | 7M | |
|  | b) | | Explain about Nmap and Dmitry information gathering tool? | CO2 | L2 | | 7M | |
|  | | **(OR)** | | | | | | |
| 5. | a) | | Define Protocol, Packet, Traffic and Port? | CO2 | | L2 | | 7M |
|  | b) | | Explain about IPtables? | CO2 | | L2 | | 7M |
|  | | **Unit –III** | | | | | | |
| 6. | a) | | Explain about Malware attacks? | CO3 | | L2 | | 7M |
|  | b) | | Explain about phishing attack with SEToolkit? | CO3 | | L2 | | 7M |
|  | | **(OR)** | | | | | | |
| 7. | a) | | Explain about Password attack Methods? | CO3 | | L2 | | 7M |
|  | b) | | Explain about Password Cracking tools (Hydra, Xhydra, John the Ripper)? | CO3 | | L2 | | 7M |
|  | | **Unit –IV** | | | | | | |
| 8. | a) | | Explain briefly Buffer Overflow attack? | CO4 | | L2 | | 7M |
|  | b) | | Explain the impact of Information Disclosure? | CO4 | | L2 | | 7M |
|  | | **(OR)** | | | | | | |
| 9. |  | | Explain Broken Authentication and Session Management with examples? How do you prevent them? | CO4 | | L2 | | 14M |

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