Reg. No. \_\_\_\_\_\_\_\_\_\_\_\_



**End Semester Examination – Nov / Dec – 2019**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
| **Code :** | **17CA2056** | **Duration :** | **3hrs** |
| **Sub. Name :** | **SECURITY ASSESSMENT OF INFORMATION SYSTEMS THROUGH ETHICAL HACKING** | **Max. Marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. | a. | Describe in detail the different modes of ethical hacking. | CO1 | 10 |
| b. | Describe in detail the information gathering methodology during footprinting. | CO1 | 10 |
| **(OR)** | | | | |
| 2. | a. | Discuss in detail the five stages of hacking with suitable examples. | CO1 | 10 |
| b. | Describe in detail the various procedures involved in Hacking methodology. | CO1 | 10 |
|  | | | | |
| 3. | a. | Describe the various categories of social engineers who use social engineering method to collect information. | CO2 | 10 |
| b. | Explain in detail Whois.com tool and what information can be obtained during a search. Give some examples. | CO2 | 10 |
| **(OR)** | | | | |
| 4. | a. | Outline in detail the various human behaviors which can be exploited to perform Social engineering attack. | CO2 | 10 |
| b. | Discuss in detail the various deliverables in ethical hacking. | CO2 | 10 |
|  |  |  |  |  |
| 5. | a. | Discuss in detail the use of PING command and its importance. Discuss in detail about TTL. | CO3 | 10 |
| b. | Explain in detail the Port scanning process with suitable examples. How reverse proxy works? Briefly explain. | CO3 | 10 |
| **(OR)** | | | | |
| 6. | a. | Discuss in detail – UDP scanning, Window scanning and ACK scanning process. | CO4 | 10 |
| b. | With a neat diagram, explain in detail on how Proxy server works. Discuss in detail Anonymizers. | CO4 | 10 |
|  |  |  |  |  |
| 7. | a. | Discuss in detail the common web application vulnerabilities. | CO4 | 10 |
| b. | Discuss in detail the war driving activity. What are the different types of war driving activity. | CO5 | 10 |
| **(OR)** | | | | |
| 8. | a. | With a neat diagram, discuss in detail the Cross Site Scripting vulnerability. | CO5 | 10 |
| b. | Discuss in detail the SQL injection attacks. List out the best practices to prevent SQL injection attacks. | CO5 | 10 |
|  | |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | | **Compulsory**: |  |  |
| 9. | a. | Discuss in detail NetBIOS, Shares, Null Sessions, and counter measures against them in windows systems. | CO6 | 10 |
| b. | Discuss in detail NFS – File permissions, buffer overflow attack in Linux systems. | CO6 | 10 |