**MODEL QUESTION PAPER**

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| **Code No: CT3550** | **SRGEC-R20** |
| **III B.Tech II Semester Regular Examinations** | |
| **ETHICAL HACKING**  **(Artificial Intelligence and Data Science )** | |
| **Time: 3 Hours Max. Marks: 70** | |

**Note:** Answer all questions. All Questions carry Equal Marks

**5 × 14 = 70M**

**Unit - I**

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| 1. | a) Enumerate different phases of Ethical hacking? Explain each in detail. (7M)  b) Enumerate the different methodology used for foot printing. Explain the foot printing through search engine. (7M) | L2 |
|  | **(OR)** |  |
| 2. | a) Define Ethical Hacking and Write the purpose of Ethical Hacking. (7M)  b) Explain in detail about Cyber Security Enhancement Act, SPY ACT and Federal Information Security Management Act (FISMA) (7M) | L3 |
| **Unit – II** | | |
| 3. | a) Explain in detail about CEH Scanning Methodology. (7M)  b) What is enumeration? What information can be enumerated by intruders? Explain the different enumeration techniques. (7M) | L2 |
|  | **(OR)** |  |
| 4. | a) Write about NMAP scan types. (7M)  b) Explain about Covering Your Tracks and Erasing Evidence. (7M) | L5 |
| **Unit - III** | | |
| 5. | a) What is a Trojan? What is the purpose of Trojans? (7M)  b) What is a virus? What are the characteristics of virus? What are the stages in life cycle of a virus? Explain. (7M) | L2 |
|  | **(OR)** |  |
| 6. | a) What is a botnet? What is the purpose of botnet? Explain the botnet propagation technique. (7M)  b) What is session hijacking? What are the steps to hijack a session? What are the dangers posed by hijacking a session? (7M) | L5 |
| **Unit – IV** | | |
| 7. | a) Explain the types of Web Server Vulnerabilities. (7M)  b) What are the countermeasures against SQL injection? Explain. (7M) | L5 |
|  | **(OR)** |  |
| 8. | a) Write briefly about Web Application Vulnerabilities. (7M)  b) What are programming countermeasures against buffer overflows? (7M) | L2 |
| **Unit - V** | | |
| 9. | a) What is Evil Twin? Explain. (6M)  b) What is cryptography? Why is it used? What are the objectives of cryptography? Explain the cryptography process. (8M) | L5 |
|  | **(OR)** |  |
| 10. | a) What is Honeypot? How does it work? What are different types of Honeypots? (7M)  b) Write about Automated Penetration Testing Tools. (7M) | L3 |

BL ==> Blooms taxonomy Level (**L1**-Remembering, **L2**-Understanding, **L3**-Applying, **L4**-Analyzing, **L5**- Evaluating, **L6**- Creating)