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



**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

(Declared as Deemed-to-be University under Sec.3 of the UGC Act, 1956)

**End Semester Examination – April/May– 2017**

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| **Code :** | **14CS3038** | **Duration :** | **3hrs** |
| **Sub. Name :** | **SECURITY IN COMPUTING** | **Max. marks :** | **100** |

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

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| Q. No. | Sub Div. | Questions | Course  Outcome | Marks |
| 1. |  | Explain in detail the various types of intrusion detection systems. | CO3 | 20 |
| (OR) | | | | |
| 2. |  | Discuss in detail the reconnaissance attacks on networks and their countermeasures. | CO3 | 20 |
| 3. | a. | Outline the design of an authentication scheme that "learns." The authentication scheme would start with certain primitive information about a user, such as name and password. As the use of the computing system continued, the authentication system must gather more information about the user and the authentication challenges must become more individualized as the system learned more information about the user. | CO1 | 10 |
|  | b. | Explain in detail the security features of a trusted operating system. | CO1 | 10 |
| (OR) | | | | |
| 4. | a. | Compare and contrast the file protection mechanisms used by Windows and Linux Operating Systems. | CO1 | 10 |
|  | b. | Differentiate Access Control List and Access Control Matrix. | CO1 | 5 |
|  | c. | Explain any one of the models which prove the theoretical limitations of security systems. | CO1 | 5 |
| 5. |  | Discuss about multi-level databases. | CO2 | 20 |
| (OR) | | | | |
| 6. |  | Explain about inference in databases. | CO2 | 20 |
| 7. | a. | What are the contents of a security plan? | CO3 | 5 |
|  | b. | Write short notes on  i. Incident Response Plans .  ii. Business Continuity Plans. | CO3 | 15 |
| (OR) | | | | |
| 8. |  | Explain in detail about physical security. | CO3 | 20 |
|  | | **Compulsory**: |  |  |
| 9. | a. | Humans are said to be the weakest link in any security system. Give an example of human failure that could lead to compromise of encrypted data. | CO1 | 5 |
|  | b. | Write the taxonomy of program flaws. | CO1 | 5 |
|  | c. | List the types of malicious codes. | CO1 | 5 |
|  | d. | Explain how viruses attach to a program. | CO1 | 5 |

ALL THE BEST