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 – Nov/Dec – 2016**

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|  |  | **Semester :** | **2016-17 ODD** |
| **Code :** | **14CS3054** | **Duration :** | **3hrs** |
| **Sub. Name :** | **DATABASE SECURITY** | **Max. marks :** | **100** |

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

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| **Q. No** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. | a. | Discuss the component that is peripheral to the actual Oracle RDBMS but integral to its management. | CO1 | 10 |
| b. | Detail running operating system commands in Oracle. | CO1 | 10 |
| (OR) | | | | |
| 2. | a. | Elaborate Attacking oracle with clear examples and syntax. | CO1 | 15 |
| b. | Does Oracle support PL/SQL? Explain in detail. | CO1 | 5 |
| 3. | a. | Elucidate the steps to improve the security of the core Oracle DBMS. | CO1 | 10 |
|  | b. | Explain gaining access to the filesystem through DB2 and detail local attacking techniques used in DB2. | CO1 | 10 |
| (OR) | | | | |
| 4. |  | Discuss DB2 authentication and authorization. | CO1 | 20 |
| 5. | a. | Detail Running Arbitrary Commands with SPL and loading arbitrary libraries in Informix. | CO1 | 15 |
|  | b. | Discuss SQL Buffer Overflows in Informix. | CO1 | 5 |
| (OR) | | | | |
| 6. | a. | Detail Shared Memory, Usernames, and Passwords analysis for attacking Informix database. | CO1 | 10 |
|  | b. | Explain the various methods to secure Informix database. | CO1 | 10 |
| 7. |  | Elaborate Sybase: Discovery, Attack, and Defense with real-time scenarios. | CO1 | 20 |
| (OR) | | | | |
| 8. |  | Elucidate the various methods for securing Sybase with clear checklist analysis. | CO1 | 20 |
|  | | **Compulsory:** |  |  |
| 9. |  | Elaborate Microsoft SQL server architecture with its attack and defense mechanisms and solutions. | CO1 | 20 |

ALL THE BEST