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 :** | **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. | Quote the need of database security. Explain the security flaws in Database security. | CO1 | 10 |
| b. | Explain the Database authentication and Database authorization in oracle database. | CO2 | 10 |
| (OR) | | | | |
| 2. |  | How do you secure oracle database? Illustrate with an example. | CO3 | 20 |
| 3. | a. | How does DB2 database handle authentication and authorization? | CO2 | 10 |
|  | b. | Discuss the following approaches to secure DB2 database.  i. Operating system  ii. DB2 network interface  iii. Removing unnecessary components. | CO3 | 10 |
| (OR) | | | | |
| 4. |  | Write down the steps for building a protected informix database server. | CO3 | 20 |
| 5. | a. | List and discuss the features of Sybase architecture. | CO1 | 10 |
|  | b. | Summarize best practices for securing Sybase database. | CO3 | 10 |
| (OR) | | | | |
| 6. |  | Discuss the MS SQL server injection techniques in Sybase. | CO2 | 20 |
| 7. | a. | Describe the physical database architecture of MySQL. | CO1 | 10 |
|  | b. | How can logical database architecture be examined with its schemas, tables and views and supports procedures, functions and triggers for the following MySQL database tables  mysql> show tables;  +-----------------+  | Tables\_in\_mysql |  +-----------------+  | columns\_priv |  | db |  | func |  | help\_category |  | help\_keyword |  | help\_relation |  | help\_topic |  | host |  | tables\_priv |  | user |  +-----------------+ | CO1 | 10 |
| (OR) | | | | |
| 8. | a. | Demonstrate the password hacking of MySQL database server. | CO2 | 10 |
|  | b | Write down the steps to building a protected My SQL server database. | CO3 | 10 |
|  | | **Compulsory:** |  |  |
| 9. |  | Apply the steps in building a protected SQL database server installation and ensure by removing the unnecessary features and services to lock down the server. | CO3 | 20 |

ALL THE BEST