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



**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

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

**Supplementary Examination – June – 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. | Examine the physical layout of Oracle database Architecture and describe the major components of oracle and their interaction with network | CO1 | 10 |
| b. | How do you attack an oracle database? Demonstrate with an example. | CO2 | 10 |
| (OR) | | | | |
| 2. | a. | How do you secure oracle database? Explain with an example. | CO2 | 14 |
| b. | When john first started looking into IBMDB2 security, one of the most frustrating problems he had was simply trying to connect the DB2 client to a remote system. If he had read the documentation the problem wouldn’t have been quite so frustrating. Describe how to hookup the client to a remote system through the DB2 processes. | CO1 | 6 |
| 3. | a. | How does DB2 database handle authentication and authorization? | CO2 | 10 |
|  | b. | Demonstrate the compromising techniques of a DB2 database server. | CO3 | 10 |
| (OR) | | | | |
| 4. | a. | Explain the informix database server architecture. | CO1 | 10 |
|  | b. | Apply the steps to building a protected informix database server. | CO2 | 10 |
| 5. | a. | Assume you are Database administrator for XYZ enterprise company which uses Sysbase database. As a DBA how do you defense against security attack? | CO3 | 10 |
|  | b. | Discuss MS SQL server injection Techniques in Sybase. | CO2 | 10 |
| (OR) | | | | |
| 6. |  | Develop a secure sysbase database server.Consider following criteria to deveop a secure sysbase database server.  i.operating system  ii. sysbase user  iii. sysbase configurations | CO2 | 20 |
| 7. | a. | Summarizethe storage engine of MySQL database server. | CO1 | 10 |
|  | b. | Examine the logical database architecture of MySQL. | CO1 | 10 |
| (OR) | | | | |
| 8. |  | Discuss the following approaches to hacking My SQL database  i.SQL injection in My SQL  ii.Trojanning My SQL | CO1 | 20 |
|  | | **Compulsory:** |  |  |
| 9. |  | Write down the steps to building a protected SOL server database. | CO2 | 20 |

ALL THE BEST

Course Outcome:

The student will be able to

CO1: secure database systems in the network.

CO2: analyze the various security attacks pertaining to database systems.

CO3: audit a customer's network for database security problems.