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

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**End Semester Examination – Nov/Dec – 2018**

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| **Code :** | **14CS2004** | **Duration :** | **3hrs** |
| **Sub. Name :** | **DATABASE ADMINISTRATION** | **Max. marks :** | **100** |

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

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| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. |  | Illustrate the physical memory structure of oracle database highlighting each of its components with a neat sketch. | CO1 | 20 |
| (OR) | | | | |
| 2. |  | Elaborate on various background process associated with key operations of Database. | CO1 | 20 |
|  |  |  |  |  |
| 3. |  | Illustrate various table spaces which are created automatically during the installation process and specify its distinctive purposes. Use necessary SQL commands to show how tablespace can be managed in command mode | CO1 | 20 |
| (OR) | | | | |
| 4. | a. | Examine various space management problems associated with database and the methods to handle it. | CO3 | 10 |
|  | b. | Consider an academic institution which maintains a student database holding academic, personal, transactional data. Security capabilities should be granted or revoked based on priority, show how as an administrator you will comprehend the task? Provide suitable example. | CO3 | 10 |
|  |  |  |  |  |
| 5. |  | Discuss the necessity of data dictionary and dynamic performance views in checking spatial constraints and critical alerts of database. | CO3 | 20 |
| (OR) | | | | |
| 6. |  | If DBA suspects Mr. ‘X’ as an intruder inside the organization who uses his privileges to gain some resource then, Analyze the ways in which auditing can be useful for him to extricate the issue. | CO3 | 20 |
|  |  |  |  |  |
| 7. |  | Mr. Jim is a Database administrator in Orlins Data center. He supposed to maintain consistency of database by performing a consistent backup. Summarize one suitable command driven technique to perform offline backup. | CO2 | 20 |
| (OR) | | | | |
| 8. |  | Consider the example of Redbus ticket booking service. Determine the steps involved in performing online backup using SQL | CO2 | 20 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. | a. | Compare RMAN with traditional backup methods. | CO3 | 10 |
|  | b. | Discuss how recovery on tablespace can be done using RMAN? | CO3 | 10 |