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

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

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| **Code :** | **14CS3053** | **Duration :** | **3hrs** |
| **Sub. Name :** | **DATA WAREHOUSE** | **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. | List the differences between operational data and DSS data. | CO1 | 6 |
| b. | Justify why the data warehouse to be developed by spiral methodology and explain how it differs from traditional SDLC approach. | CO1 | 14 |
| (OR) | | | | |
| 2. | a. | Assume a company maintains history of records about their all customers in data warehouse environment. Discuss the various levels of data warehouse architecture along with the records in each level. | CO3 | 15 |
| b. | Discuss the role of meta data in ware house environment. | CO1 | 5 |
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| 3. |  | Assume ABC is a multi-national company, decided to upgrade its technology to provide solutions to big data. Illustrate the different technological requirements required to design their data warehouse business environment with neat sketches. | CO1 | 20 |
| (OR) | | | | |
| 4. | a. | Elaborate the problems faced by external data in the data warehouse. | CO1 | 6 |
| b. | Compare and contrast the types of data warehouses in distributed environment and illustrate the ways to intersect and access the local and global data. | CO3 | 14 |
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| 5. | a. | Enumerate the following to integrate a unstructured document and a structured document with an example.   1. Matching the text across the environments 2. A probabilistic match 3. Themed match | CO3 | 5+5+5 |
| b. | Explain the role of granularity manager with a neat sketch. | CO2 | 5 |
| (OR) | | | | |
| 6. | a. | Differentiate between normal data warehouse and inverted data ware house and analyze the performance of both the environments for executing a given query. | CO2 | 10 |
| b. | Show the importance of Self Organizing Map in unstructured data world. |  | 10 |
|  |  |  |  |  |
| 7. | a. | Compare independent data mart and dependent data mart with neat diagrams and analyze their performance with respect to data warehouse. | CO2 | 10 |
| b. | Illustrate the life cycle of data in data warehouse environment with neat sketch. | CO1 | 10 |
| (OR) | | | | |
| 8. |  | Explain the following types of multi dimensional with an example.   1. Star join. 2. Snowflake structures. | CO2 | 10+10 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. | a. | Express the relationship between data warehouse and business intelligence. | CO3 | 6 |
| b. | Describe the following with neat diagrams:   1. Corporate Information Factory. 2. Government Information Factory. | CO2 | 7+7 |