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

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**End Semester Examination – Nov / Dec – 2019**

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| **Code :** | **18CS3013** | **Duration :** | **3hrs** |
| **Sub. Name :** | **BIG DATA ANALYTICS** | **Max. Marks :** | **100** |

**ANSWER ANY FIVE QUESTIONS (5 x 16 = 80 Marks)**

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| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. | a. | Write the types of NoSQL database. | CO2 | 5 |
| b. | Distinguish between the SQL and NoSQL. | CO3 | 6 |
| c. | Explain about aggregrate data models in NoSQL. | CO1 | 5 |
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| 2. | a. | Define document database. Explain its suitable Use Cases. | CO2 | 6 |
| b. | What is graph database? Discuss the graph database features. | CO2 | 6 |
| c. | Describe the data types supported by MongoDB. | CO1 | 4 |
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| 3. | a. | Illustrate about Column-Family Stores. | CO1 | 4 |
| b. | Write short notes on CQL data types. | CO2 | 6 |
| c. | Discuss the Cassandra features. | CO2 | 6 |
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| 4. | a. | Write the features of Hadoop. | CO1 | 4 |
| b. | Distinguish between RDBMS and Hadoop. | CO2 | 6 |
| c. | Evaluate the concept of HDFS. | CO2 | 6 |
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| 5. | a. | Discuss about Mapper and Reducer in MapReduce with example. | CO3 | 8 |
| b. | Write the anatomy of a MapReduce Job Run. | CO1 | 4 |
| c. | Estimate the MapReduce types. | CO1 | 4 |
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| 6. | a. | Explain in detail about input split and record in input format of MapReduce. | CO3 | 6 |
| b. | Discuss about Hive Query Language. | CO1 | 4 |
| c. | Illustrate the Hive file format. | CO3 | 6 |
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| 7. | a. | Describe the Hive Data types. Explain the primitive datatypes. | CO1 | 4 |
| b. | Illustrate about Pig. | CO2 | 4 |
| c. | Criticize about YARN application. | CO3 | 8 |
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| **COMPULSORY QUESTION (1 x 20 = 20 Marks)** | | | | |
| 8. | a. | Evaluate the output format of MapReduce with an example. | CO3 | 8 |
| b. | Draw and explain Hive architecture. | CO2 | 4 |
| c. | Summarize the MapReducer features. | CO3 | 8 |