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| **C:\Users\student\Desktop\bmsit-new logo.png** | **BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT**  (An Autonomous Institute, Affiliated to VTU Belagavi)  **DEPARTMENT OF MCA**  (Accredited by NBA, New Delhi) |

**ASSIGNMENT, AUGUST 2023**

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| *Subject: Big Data Analytics* | *Subject Code: 22MCA2052* | *Semester: II* |
| ***Max. Marks: 5 Marks*** | ***Last Date for submission: 05.08.2023*** | ***Staff: Dr. P.Ganesh*** |

***Instructions****: 1. Answer* ***all*** *questions*

*2. Answers should be precise.*

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| **Q. No** | **Question** | **CO** | **K - level** |
| **1** | **Given the advancement in the field of Big Data, discuss at least 10 various job roles that are associated with Big Data Analytics.** | **CO1** | **K2** |
| **2** | **Discuss usage of Big Data in any 2 social welfare applications at present.** | **CO1** | **K3** |
| **3** | **As you are aware, India has “The Digital Personal Data Protection Bill, 2022**”. **Bring out the importance of this bill given the challenges that data collection or data accumulation creates.** | **CO1** | **K3** |
| *Course outcomes: At the end of this course students will be able to* | | | |
| *1* | Identify the business problem for a given context and frame the objectives to solve it using data analytics tools. | | |
| *2* | Differentiate various types of analytics algorithms and context of their application. | | |
| *3* | Illustrate the architecture of HDFS and MapReduce. | | |
| *4* | Explore Spark architecture and its language APIs. | | |
| *5* | Write Hive queries against large datasets on clusters. | | |

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| **K1 - Remember** | **K2 - Understand** | **K3 - Apply** |
| **K4 - Analyze** | **K5 - Evaluate** | **K6 - Create** |