

**DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE**

**Supplementary Semester Examination – Summer 2022**

**Course: B. Tech.**

**Branch : Computer**

**Semester : VIII**

**Subject Code & Name: BTCOE702A Big Data Analytics**

**Max Marks: 60**

**Date: 18/08/2022**

**Duration: 3.45 Hrs.**

**Instructions to the Students:**

1. All the questions are compulsory.
2. The level of question/expected answer as per OBE or the Course Outcome (CO) on which the question is based is mentioned in ( ) in front of the question.
3. Use of non-programmable scientific calculators is allowed.
4. Assume suitable data wherever necessary and mention it clearly.

(Level/CO) Marks

**Q. 1 Solve Any Two of the following.**

- |   |            |   |
|---|------------|---|
| A) What is Big Data? Explain characteristics of Big Data.               | Remember   | 4 |
| B) Describe the various applications of Big Data Analytics.             | Understand | 4 |
| C) Explain about the challenges facing in processing big data now days? | Understand | 4 |

**Q.2 Solve Any Two of the following.**

- |  |            |   |
|--|------------|---|
| A) Explain MapReduce framework in brief.             | Remember   | 4 |
| B) Define HDFS. Explain HDFS Architecture.           | Understand | 4 |
| C) Write down YARN component for Big Data Platforms. | Remember   | 4 |

**Q. 3 Solve Any Two of the following.**

- |  |            |   |
|--|------------|---|
| A) How to process Big Streaming Data?                                      | Understand | 4 |
| B) Explain the entire computation of Spark Streaming.                      | Remember   | 4 |
| C) Define Apache Spark and Apache kafka. Write down the benefits of kafka. | Understand | 4 |

**Q.4 Solve Any Two of the following.**

- |  |            |   |
|--|------------|---|
| A) List out Spark MLlib Library.                                       | Remember   | 4 |
| B) Write down categories of Machine Learning. Explain any one from it. | Remember   | 4 |
| C) Describe the components of Spark MLlib.                             | Understand | 4 |

**Q. 5 Solve Any Two of the following.**

- |   |            |   |
|---|------------|---|
| A) How does the mongo DB aggregation pipeline work?             | Remember   | 4 |
| B) What is Mongo DB? Explain in brief key features of Mongo DB. | Understand | 4 |
| C) Write difference between MongoDB and Hadoop.                 | Analysis   | 4 |

**\*\*\* End \*\*\***