

Roll No. ....

Total Pages : 02

**BT-6/J-22**

**46215**

**BIG DATA ANALYTICS**

**PE-IT-S306A**

Time : Three Hours]

[Maximum Marks : 75

**Note :** Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

**Unit I**

1. (a) Discuss the 4 V's of Big Data. 8
- (b) What is distributed file system ? Explain. 7
2. (a) Briefly discuss about Big Data and its importance. 8
- (b) What are the various applications of Big Data ? Explain. 7

**Unit II**

3. (a) What is Apache Hadoop technology ? Explain. 8
- (b) How is data moved in and out of Hadoop ? Discuss. 7
4. (a) How is Big Data managed by Hadoop Ecosystem ? Explain. 8

- (b) How is Map-Reduce function used to process input data and give output results ? 7

### Unit III

5. (a) What is Name Node and Data Node in Hadoop ? Explain. 8
- (b) What is Secondary Name Node ? What is the role of Secondary Name Node ? 7
6. (a) Differentiate between Job Tracker and Task Tracker. 8
- (b) How is a Map-Reduce task processed in HDFS ? 7

### Unit IV

7. Explain Hadoop YARN architecture in detail. 15
8. Explain various components of Hadoop ecosystem version 2.0 in detail. 15

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