

Code: CS7T1

**IV B.Tech - I Semester – Regular/Supplementary Examinations
October - 2019**

**BIG DATA CONCEPTS
(COMPUTER SCIENCE & ENGINEERING)**

Duration: 3 hours

Max. Marks: 70

PART – A

Answer *all* the questions. All questions carry equal marks

11 x 2 = 22 M

1. a) Explain Four V's of Big Data.
- b) List out the applications of Big Data.
- c) What is Map Reduce?
- d) Write down the features of HDFS.
- e) What is Flume?
- f) Indicate the differences between name node and data node.
- g) List hadoop operation modes.
- h) What is the fair scheduler?
- i) Name methods that control the outputs of map and reduce functions?
- j) Name input and output classes in Hadoop.
- k) Label classes used for input format.

PART – B

Answer any **THREE** questions. All questions carry equal marks.
3 x 16 = 48 M

2. a) Explain various stages involved in Map reduce program. 8 M
b) State and explain the significance of Volunteer computing. 8 M
3. a) Draw and explain HDFS Design and its Concepts. 8 M
b) Discuss Hadoop components. 8 M
4. a) What is MRUnit test? Identify various classes and interfaces used in MRUnit test. 8 M
b) Sketch the process of configuration of Hadoop XML files by taking suitable example. 8 M
5. a) Represent the state-of-the-art of job scheduling to prioritize mapreduce jobs. 8 M
b) Analyze the flow of task execution in hadoop. 8 M
6. a) Give example java program accept and display binary input. 8 M
b) Enlighten the usage of input formats and output formats in hadoop. 8 M