

IV B.Tech I Semester Supplementary Examinations, February- 2020

DATA ANALYTICS**(Common to Computer Science and Engineering and Information Technology)****Time: 3 hours****Max. Marks: 70***Question paper consists of Part-A and Part-B**Answer ALL sub questions from Part-A**Answer any FOUR questions from Part-B*

PART-A(14 Marks)

1. a) How to find the middle element of the linked list in one Pass? [3]
- b) Why Hadoop is used in Big data analytics? [2]
- c) Explain the syntax of partitioner class? [3]
- d) Differentiate between object writable and generic writable? [2]
- e) What are the operators used for debugging and troubleshooting? [2]
- f) What do you mean by windowing in HiveQL? [2]

PART-B(4x14 = 56 Marks)

2. a) With the help of a JAVA code explain Generic methods and Generic classes. [7]
- b) What are wrapper classes? List and explain wrapper classes available for primitive types? [7]
3. a) List and explain the important features of Hadoop. [7]
- b) With a neat sketch explain the structure of google file system. [7]
4. a) Write a program to find maximum recorded temperature by year from data collected from national climate data center. [7]
- b) Explain the differences between old and new Java MapReduce API. [7]
5. Write a java code for Writable implementation that stores a pair of Text objects. [14]
6. a) Explain the principles to be considered while writing Pig scripts. [7]
- b) Describe two modes for running scripts in Pig. [7]
7. a) Draw a neat sketch to explain components that are required when running the Command Line Interface. [7]
- b) Explain the creating, dropping and altering databases using Apache Hive. [7]

