Code: 13A05606 **R13**

B.Tech III Year II Semester (R13) Regular Examinations May/June 2016

BIG DATA TECHNOLOGIES

(Common to CSE & IT)

Time: 3 hours Max. Marks: 70

PART – A

(Compulsory Question)

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1 Answer the following: (10 X 02 = 20 Marks)

(a) Differentiate between structured and unstructured data.

(b) What are the four characteristics of big data?

(c) What are the core methods of a reducer?

(d) Differentiate between HBase and Hive.

(e) Define data locality.

(f) Explain Hadoop streaming.

(g) Enumerate the objectives of fair scheduler.

(h) Which interface needs to be implemented to create mapper and reducer for Hadoop?

(i) Define Metastore in Hive.

(j) Mention the key components of H Base.

PART – B

(Answer all five units, 5 X 10 = 50 Marks)

UNIT - I

2 (a) Define the drivers for big data velocity, variety, and veracity.

(b) Write four big data analytics applications in detail.

OR

3 (a) Explain Hadoop framework in detail.

(b) Explain Hadoop installation process in detail.

UNIT - II

4 Explain the HDFS architecture in detail.

OR

5 Explain the following:

(a) Coherency model.

(b) Distcp.

UNIT - III

6 Explain how Hadoop analyze data with an example code.

OR

7 Explain the functionalities of MapReduce web UI in detail.

UNIT - IV

8 Explain the objectives of map reduce. Describe the anatomy of map reduce job run in detail.

OR

9 Discuss different types of input and output formats of map reduce with an example.

UNIT - V

10 Describe the architectural differences of Hive in comparison with traditional databases.

OR

11 Explain how map reduce can be used with HBase for a big data application with appropriate code segments.

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