B.Tech III Year II Semester (R13) Supplementary Examinations December 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)   What is big data?
   (b)   What is grid computing?
   (c)   Define HDFS.
   (d)   What are HDFS design goals?
   (e)   Name the Unix tool to analyze the data.
   (f)   What is the purpose of configuration API and what an instance of Configuration class represents explain briefly.
   (g)   Define map reduce.
   (h)   What is the role of task tracker?
   (i)   Explain Hive Shell briefly.
   (j)   Write briefly about web queries.

PART – B

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

UNIT – I

2   Why big data is important and also write brief history about HADOOP?

OR

3   Write about HADOOP Eco system and also explain VM ware installation of HADOOP.

UNIT – II

4   Write about HDFS concepts and also explain Command line Interface to HDFS.

OR

5   Explain about Java interface to HADOOP and also explain about anatomy of file write to HDFS.

UNIT – III

6   Explain Java Map Reduce Classes and also explain about combiner functions.

OR

7   Explain about writing a Unit test with MR unit and also explain how to run a job in local job runner.

UNIT – IV

8   Explain how a job is run in Classic Map Reduce with illustration.

OR

9   Explain Map reduce types and also about Map side and Reduce side Joins.

UNIT – V

10   Discuss in detail about Hive Services and Hive Clients.

OR

11   Write in detail about Hbase implementation with illustration.

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