B.Tech III Year II Semester (R13) Regular & Supplementary Examinations May/June 2017
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)   Why is big data important explain briefly?
   (b)   What is grid computing?
   (c)   Define an interface.
   (d)   What is name node?
   (e)   Define map reduce technique.
   (f)   Name the Unix Tool to analyze the data.
   (g)   What is job initialization?
   (h)   Write general form of map & reduce functions.
   (i)   Explain Hive shell briefly.
   (j)   Explain the purpose of HBase Java API.

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

UNIT – I

2   What is big data? Explain its characteristics. Also write brief history of HADOOP.
OR
3   Write about Apache backup and Hadoop Ecosystem.

UNIT – II

4   Write about design of HDFS and its concepts and also explain Java interfaces to Hadoop.
OR
5   Explain about Anatomy of file read and file writes. Explain Coherency model.

UNIT – III

6   Explain about analysis of data with Unix Tools and analyzing data with Hadoop.
OR
7   Explain about writing a Unit Test with MR Unit and also explain about Map Reduce Web UI.

UNIT – IV

8   Explain how a job is submitted and initialized with illustration.
OR
9   What are Map Reduce types and also explain 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 Java and Map reduce implementation.

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