Code: 13A05606

## 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:  $(10 \times 02 = 20 \text{ Marks})$ 
  - (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,  $5 \times 10 = 50 \text{ Marks}$ )

UNIT – I

What is big data? Explain its characteristics. Also write brief history of HADOOP.

OR

Write about Apache backup and Hadoop Ecosystem.

[ UNIT – II ]

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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