

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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