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## B.TECH.

### Theory Examination (Semester-VI) 2015-16

### BIG DATA

*Time : 3 Hours*                    *Max. Marks : 100*

#### Section-A

1. Attempt all parts. All parts carry equal marks. Write
   answer of each part in short.          (2 × 10 = 20)

   (a)    How you can define the term big data?

   (b)    What comes under big data?

   (c)    Explain the major challenges of big data.

   (d)    What are the different types of big data technologies?

   (e)    Explain the difference between operational and analytical
          system.

environment.

**Section-B**

2. Attempt any five parts. All parts carry equal marks :

(10×5=50)

(a) Write the working procedure of HDFS and also explain the features of HDFS.

(b) What is Map Reduce? Explain the stages of Map Reduce program execution.

(c) Explain big data and algorithmic trading.

(d) Discuss crowd SOURCING analytics and inter, trans firewall analytics.

**Note :** Attempt any two questions from this section. (15×2 = 30)

3. (a) Explain H base and their data model and implementations.

(b) Cassandra data model with an example.

4. Explain in detail about the Hive data manipulation, queries, data definition and data types.

5. Elaborate on graph Mapping schemas. What do you mean by lower bounds replication rate ?

3005/265/42/1050 (2)

3005/265/42/1050 (3) P.T.O.