

(Following Paper ID and Roll No. to be filled in your
Answer Books)

Paper ID : 113667

Roll No.

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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.

(1)

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- (f) What is Hadoop architecture?
- (g) How does Hadoop work? Explain the advantages of Hadoop.
- (h) Explain Hadoop distributed file system.
- (i) What do you mean by Hadoop operation modes?
- (j) Explain the concept of multinode cluster for distributed 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.

(2)

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- (e) Explain big data and Hadoop open source technology.
- (f) Write the data models relationship and databases types.
- (g) Explain the aggregate data models with an example.
- (h) Write a brief note on composing map-reduce calculation.

Section-C

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 ?