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

Paper ID : 113667   Roll No.

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.** $(2 \times 10 = 20)$

     (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.

(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.

(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. $(15 \times 2 = 30)$

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 ?

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