

Roll No.

Total Pages : 02

BT-7/M-20

37153

BIG DATA AND ANALYTICS

CSE-423N

Time : Three Hours]

[Maximum Marks : 75

Note Attempt Five questions in all, selecting atleast one question from each Unit.

Unit I

1. (a) What is Big Data ? What are features of big data ? Explain. **7**
- (b) What is NoSQL ? Explain different NoSQL data models. **8**
2. (a) What are Hadoop and IoT ? How are these related to big data ? Explain. **7**
- (b) Explain about big data generation and acquisition in detail. **8**

Unit II

3. (a) What do you mean by big data analytics ? How Hive is used for this purpose ? Explain. **7**

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(b) What is GFS ? How is it different from HDFS ?
Explain. **8**

4. (a) What is Cassandra? Explain key features of
Cassandra. **8**

(b) What is content defined chunking? How is it
different from frequency based chunking ? Explain.
7

Unit III

5. (a) Explain Gear Hash and Tiger Hash with examples. **7**

(b) What is SHA-1 algorithm? How is it different
from MD5 ? Explain. **8**

6. Write short notes on the following :

(a) Compression using PCOMPRESS **7**

(b) Parallel deduplication. **8**

Unit IV

7. (a) What is SPARK ? Explain the features of SPARK.

(b) What is MongoDB ? Explain key characteristics of
MongoDB. **8**

8. (a) What is Pig ? Explain architecture of Apache Pig.

(b) Explain programming model of working of
MapReduce. **8**

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