

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA INTEGRATED– SEMESTER - VIII EXAMINATION- SUMMER-2023

Subject Code: 2688601**Date: 27/06/2023****Subject Name: Big Data Analytics****Time: 10:30 AM TO 01:00 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make Suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Use of simple calculators and non-programmable scientific calculators are permitted.

Q.1 (a) What is Big data? Explain its importance. 07

(b) Explain algorithm of Big Data using map reducing method. 07

Q.2 (a) What is Hadoop? Explain Hadoop Eco system in detail. 07

(b) What is map reducing method? Explain data serialization in detail. 07

OR

(b) What is Hive? Explain its architecture in detail. 07

Q.3 (a) Compare Hive architecture with traditional database system. 07

(b) What is data analytics? Explain the use of spark in it. 07

OR

Q.3 (a) What is HiveQL? Explain Querying Data in detail. 07

(b) What is HBase concepts? Explain its advanced usage in detail. 07

Q.4 (a) Explain Schema Design and Advanced Indexing in detail. 07

(b) What is a Zookeeper? How does it help in monitoring a cluster? 07

OR

Q.4 (a) How does a HBase uses a zookeeper? 07

(b) Explain the procedures of building applications with zookeeper. 07

Q.5 (a) What is NoSQL? Explain the advantages of NoSQL. 07

(b) Differentiate SQL and NoSQL in detail. 07

OR

Q.5 (a) What is a MongoDB Query Language? Explain in detail. 07

(b) Explain the principles of Schema design in detail. 07
