

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA– SEMESTER –V EXAMINATION –SUMMER-2019

Subject Code: 3650004

Date: 08-05-2019

Subject Name: Big Data Analytics

Time: 10.30 am to 1.00 pm

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make Suitable assumptions wherever necessary.
3. Figures to the right indicate full marks

- Q.1** (a) What is Big Data Analytics? Explain characteristics and types of Big Data. **07**
(b) What is Nearest neighbor Search? Explain Applications of Near-Neighbor Search. **07**
- Q.2** (a) What is Sampling in Data Streams? Explain Applications of Data Streams. **07**
(b) What is Hadoop? Explain Hadoop Ecosystem in detail. **07**
- OR**
- (b) What is NoSQL? Explain Key-value stores, Graph stores, Column family (Bigtable) stores and Document stores. **07**
- Q.3** (a) What is Page Rank? Explain implementation of Page Rank using Map Reduce. **07**
(b) Explain Market Basket Model in detail. **07**
- OR**
- Q.3** (a) What is Link Analysis? Explain Link Spam and Topic sensitive Page Rank. **07**
(b) Explain the SON algorithm and MapReduce. **07**
- Q.4** (a) What is MapReduce? Explain Mapper, Reducer, Combiner in details. **07**
(b) Explain Clustering techniques in details. **07**
- OR**
- Q.4** (a) Explain Frequent Item - set Mining Applications. **07**
(b) What is Clustering? Explain Hierarchical Clustering. **07**
- Q.5** (a) Explain Content-Based Recommendations System. **07**
(b) List an explain applications of social network mining. **07**
- OR**
- Q.5** (a) Explain Collaborative - Filtering Recommendation System **07**
(b) What is Social Network as a Graphs? Explain types of social networks. **07**
