

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA – SEMESTER – V EXAMINATION – WINTER – 2018

Subject Code: 3650004

Date: 26/11/2018

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]** Answer the following: **07**
1. What is Big Data? Give some example of Big Data.
 2. What is “Block” in HDFS?
 3. Give the full form of ATS.
 4. Find Jaccard Distance between following: {1, 2, 3, 4} and {2, 3, 5, 7}.
 5. Define : One – Time Queries
 6. What is Plagiarism?
 7. What id Concept drift?
- [B]** What is Big Data Analytics? Explain the characteristics of Big Data. **07**
- Q – 2 [A]** 1. Write a short note on Core Hadoop Components. **05**
2. List Types of Big Data and Give appropriate example. **02**
- [B]** Explain types of NoSQL Data Stores in detail. **07**
- OR**
- [B]** Explain Hadoop Ecosystem in brief with figure. **07**
- Q – 3 [A]** 1. What are the business drivers of NoSQL? **05**
2. Explain CAP Theorem. **02**
- [B]** Explain the working of Map Reduce phases with example. **07**
- OR**
- Q – 3 [A]** 1. Explain Collaborative Filtering as a Similar Sets Problem. **05**
2. What is NN Search? Discuss the Applications of NN Search. **02**
- [B]** What are the various Distance Measures to check similarity of objects? **07**
- Q – 4 [A]** 1. Explain Bloom Filter with Example. **05**
2. What are the Applications of Data Stream? **02**
- [B]** Explain Cloaking techniques of Spamming in detail. **07**
- OR**
- Q – 4 [A]** 1. Explain Social Network as a graph. **05**
2. Define: Page Rank and Topic Sensitive Page Rank. **02**
- [B]** Write a short note on Data Stream Samplings. **07**
- Q – 5 [A]** 1. Discuss Frequent Item – Set Mining Applications in brief. **05**
2. Name two applications of Social Network Mining. **02**
- [B]** Write a short note on Content – Based Recommendation System. **07**
- OR**

Q – 5	[A]	1. Discuss in detail Types of Social Networks.	05
		2. Compare Lexical Similarity and Semantic Similarity of document.	02
	[B]	Discuss the Applications of Clustering.	07