GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER - V - EXAMINATION - SUMMER - 2018

•	bject Code: 3650004 Date: 07 bject Name: Big Data Analytics			/05/ 201	
Fime: 10:30 AM 1:00 PM Instructions:				arks: 70	
	1. Att 2. Ma	ake su	all questions. itable assumptions wherever necessary. to the right indicate full marks.		
Q.1	(a)	1. 2.	What is big data analytics? Explain characteristics of Big data. Explain Types of Big Data.	04 03	
	(b)	1.	Explain Hadoop Architecture and its Components with proper diagram.	07	
Q.2	(a)	1. 2.	What are the NoSQL Business drivers? Discuss Characteristics of NoSQL databases.	04 03	
	(b)	1.	Write a short note on Hadoop Ecosystem. OR	07	
	(b)	1.	Explain the types of NoSQL Data Stores in detail.	07	
Q.3	(a)	1.	Explain Recommendation Based on User Ratings using appropriate example.	04	
	(b)	2. 1.	What is NN Search? Discuss Applications of NN Search. Explain working of following phases of Map Reduce with one common example. (i) Map Phase (ii) Combiner Phase (iii) Shuffle and Sort Phase (iv) Reducer Phase	03 07	
Q.3	(a)	1.	Write a Short note on Sampling in Data Streams. What are the Applications of Data Stream?	04 03	
	(b)	2. 1.	Explain Cloaking technique of Spamming in detail.	07	
Q.4	(a)	1.	Explain Market – Basket Model. Discuss two Clustering strategies.	04	
	(b)	2. 1.	Explain the structure of Web in detail. OR	03 07	
Q.4	(a)	1. 2.	Explain the following terms (any two): (i) Link Spam (ii) Topic Sensitive Page Rank (iii) Hub & Authority Pages What is Clustering? Explain with example.	04	
	(b)	1.	Write a short note on: Frequent Item - set Mining Applications.	07	
Q.5	(a)	1. 2.	Discuss the applications of Clustering. Differentiate Collaborative – filtering & Content – based systems.	04 03	
	(b)	1.	Discuss Characteristics of a Social Network as a Graph. OR	07	
Q.5	(a)	1. 2.	Explain Collaborative - Filtering Recommendation System. Differentiate between Lexical Similarity and Semantic Similarity of Documents.	04 03	
	(b)	1.	Write a short note on types of Social Networks.	07	