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GUJARAT TECHNOLOGICAL UNIVERSITY

		ME – SEMESTER –I-(New) EXAMINATION – SUMMER 2019	
Sul	bject (Code: 3710219 Date: 15/05/2019	
Sul	bject l	Name: Data Science	
Tin	ne: 0	2:30 PM TO 05:00 PM Total Marks: 70	
Ins	tructi	ons:	
		. Attempt all questions.	
	2.	. Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks.	
Q.1	(a) (b)	Difference between Data science and Big data? Importance of Data science What is Data science process? Explain types of data?	07 07
Q.2	(a) (b)	What are APIs? explain elements of APIs and categories of APIs Explain data Exploration?	07 07
		OR	
	(b)	Explain challenges of data storage and data management?	07
Q.3	(a)	What is machine learning and why should you care about it? where machine learning is used in the data science process?	07
	(b)	Explain the problems you face when handling large data? OR	07
Q.3	(a) (b)	Use of linear regression in Machine learning? Explain multiple linear regression Explain types of Machine learning?	07 07
Q.4	(a) (b)	Explain Naive Bayes classifier? Why do we use SVM in machine learning?	07 07
	(~)	OR	
Q.4	(a)	Explain in brief types of Data visualization	07
	(b)	Compare Data visualization and data analytics	07
Q.5	(a)	How Python tool used in machine learning?	07
	(b)	What is CLT? why is it important?	07
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Q.5	(a)	List out visualization techniques and explain any two	07
	(b)	Explain application of data science?	07
