Seat No.: _____

Subject Code:3640005

Enrolment No._____

Date:27-11-2018

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER-IV EXAMINATION WINTER-2018

Subject Name: Data Analytics with R Programming

Time: 10.30 AM to 1.00 PM Instructions:			al Marks: 70	
Insi		Attempt all questions. Make suitable assumptions wherever necessary.		
Q.1	(a) (b)	 Answer the following questions. i) Which function helps to perform sorting in R language? ii) Which function is used to create histogram visualization in R programming language? iii) Write the syntax to set the path for current working directory in R environment. iv) What is the workspace in R? v) Why library () function is used? vi) What is the use of par () function? vii) What will be the class of the resulting vector if you concatenate a number and a character? What is Data Analytics? Explain types of Data Analytics. 	07	
Q.2	(a)	Write short note on applications of Data Analytics.	07	
	(a) (b)	Explain following decision making statement in R. (i) if_else statement (ii) switch statement OR	07	
	(b)	What is Data Frame? Explain the functionally of Data frame with example	07	
Q.3	(a)	Write R script to create data frame "student" with the fields of stud_id, stud_name, email_id and mobile_no. Perform following operations: (i) Display summary of data frame (ii) Display structure of data frame (iii) Extract and display only stud_name and mobile_no from data frame	07	
	(b)	What is Graph? Explain Graphical Elements in detail OR	07	
Q.3	(a)	Write an R script to read a csv file consisting of numeric data and print	07	
	(b)	maximum, minimum, sum, mean, media n and mode of the data on screen. Explain pie() function with all parameters with example.	07	
Q.4	(a)	What is Prediction? Differentiate Random Forest and Decision Tree. Which	07	
-	(b)	decision model is best for Decision Making? What is Survival Analysis? Give syntax of Surv () and survfit() function. OR	07	
Q.4	(a)	Explain Time Series Analysis in detail with example.	07	
	(b)	What is Linear Regression? Give steps to establish a Linear Regression in R. Explain lm() function with example.	07	
Q.5	(a)	Write steps of creating employee.csv file (emp_name, organization, mobile_no, email, salary, experience, and city) which contains 5 randomly selected records. Write R script to read data from employee.csv and display it into R workspace.	07	

	(b)	What is Object? How to convert one object form to another object form?	07
		OR	
Q.5	(a)	What is Prescriptive Analytics? Explain data creation for analytics through	07
		designed experiments	
	(b)	What is the purpose of using Next and Break statements in R language?	07
