

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA INTEGRATED SEMESTER – VIII• EXAMINATION – WINTER - 2018

Subject Code: 4480602**Date:19/11/2018****Subject Name: Data Analytics with R****Time:2:30 PM TO 5:00 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)** Do as directed: **07**
- 1) Which function is used to merge two data frames?
 - 2) Which package is required to work with JSON file?
 - 3) True/false: Arithmetic operations are possible with matrix.
 - 4) Differentiate: Break and Next statement.
 - 5) Full Form: OOB.
 - 6) Define List.
 - 7) Which function is used to create the relationship model between the predictor and response variable?
- (b)** Explain classification of data in detail. **07**
- Q.2 (a)** Explain R data types in detail with suitable example. **07**
- (b)** Explain how to assign, find and deleting variables in detail with suitable example. **07**
- OR**
- (b)** Explain types of operators in detail with suitable example. **07**
- Q.3 (a)** Explain String Manipulation functions in detail with suitable example. **07**
- (b)** Explain Histograms and box plot using suitable example. **07**
- OR**
- Q.3 (a)** Write a script to read data from Excel file and display in R workspace. **07**
- (b)** Explain Pie chart in detail with all its arguments using suitable example. **07**
- Q.4 (a)** Write a script to retrieve all the data from table, updating rows in the table and inserting data into the table in MySql database. **07**
- (b)** Explain dnorm(), pnorm(), qnorm() and rnorm() with suitable example. **07**
- OR**
- Q.4 (a)** Explain time series analysis with suitable example. **07**
- (b)** Write a script to create the data frame, get structure of it, shows summary of the data and extract data from data frame. **07**
- Q.5 (a)** Explain Linear and Multiple regressions using suitable example. **07**
- (b)** How to create data for analytics through active learning? **07**
- OR**
- Q.5 (a)** How to create data for analytics through designed experiments? **07**
- (b)** Explain Survival Analysis with example. **07**
