

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA Integrated - SEMESTER-VIII • EXAMINATION – SUMMER - 2017

Subject Code: 4480602

Date: 01/05/ 2017

Subject Name: Data Analytics with R

Time: 10.30 am to 01.00 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)** What is data analytics? Explain the general categories of data analytics that are distinguished by the results they produce. **07**
- (b)** Explain the following (i) packages (ii) Accessing built in datasets **07**
- Q.2 (a)** Explain data type in detail with example. **07**
- (b)** Explain classification of data in detail. **07**
- OR**
- (b)** What is data frame? Explain the functionality of data frame with example. **07**
- Q.3 (a) i.** What is variable? How to assign a value to a variable and removing variable in R? **04**
- ii.** Explain list operation in brief. **03**
- (b)** What is Object? How to convert one object form to another object form? **07**
- OR**
- Q.3 (a)** Explain control statements with example. **07**
- (b)** Explain the following (i) Vector (ii) Matrix **07**
- Q.4 (a)** What is Graph? Explain graphical elements in detail. **07**
- (b)** Explain decision tree with example. **07**
- OR**
- Q.4 (a)** What is prediction? Differentiate random forest and decision tree. Which decision model is best for decision making? **07**
- (b)** What is binomial distribution? Explain functions used to execute binomial distribution with example. **07**
- Q.5 (a)** Explain linear models with example. **07**
- (b)** Explain the following with arguments (i) Histogram (ii) pie (iii) boxplot **07**
- OR**
- Q.5 (a)** How to read data from excel and database? Explain in detail **07**
- (b)** What is Prescriptive Analytics? How to Creating data for analytics through designed experiments? **07**
