

**R13**

Code No: 116FA

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year II Semester Examinations, October/November - 2016

INTRODUCTION TO ANALYTICS

(Common to CSE, IT)

Time: 3 hours

Max. Marks: 75

**Note:** This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

**PART - A****(25 Marks)**

- 1.a) What is Data Frame? [2]
- b) Explain about the concept of Reading Datasets. [3]
- c) Define Bivariate Random variable. [2]
- d) Write the difference between Team work and Individual work. [3]
- e) Explain how to Read R output in Excel. [2]
- f) Write the differences of NOSQL and SQL. [3]
- g) Explain Auto Correlation. [2]
- h) Define Regression Modeling. [3]
- i) What are the problems related to a project? [2]
- j) Explain Smart Utilities. [3]

**PART - B****(50 Marks)**

- 2.a) Explain R functions and R loops with examples.
  - b) Explain briefly about the types of Datasets with their syntax and example. [5+5]
- OR**
- 3.a) What are Outliers? Explain with an example.
  - b) Explain about Quality and Standard Adherence. [5+5]
- 4.a) What is Probability?
  - b) What is Professionalism? How to exhibit Professionalism? [5+5]
- OR**
5. Explain about Central Limit Theorem. [10]
- 6.a) Explain how SQL is used in R.
  - b) Define and explain the term NOSQL. [5+5]
- OR**
- 7.a) Write the NOSQL database classification based on data model with examples.
  - b) List the steps for connecting R to NOSQL database. [5+5]

8. Explain about Multiple Linear Regression with a suitable example. [10]  
**OR**
9. Explain the concept of Basic Regression Analysis with a suitable example. [10]
10. Explain the concept of Understanding systems and Engineering Design. [10]  
**OR**
11. Comparison of business analytics and organization decision-making processes with a flow chart in detail. [10]

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