

R13

Code No: 116FA

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**B.Tech III Year II Semester Examinations, May - 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) List the Data types in R. [2]
- b) Explain R loops. [3]
- c) Define Expected value? [2]
- d) What are the roles of a Team member? [3]
- e) Define NO SQL? [2]
- f) Write the differences of NO SQL and SQL. [3]
- g) Explain Regression residuals. [2]
- h) Define Multiple Linear Regression? [3]
- i) What is meant my Manufacturing? [2]
- j) Explain Smart Utilities. [3]

PART - B**(50 Marks)**

- 2.a) What are Outliers? Explain with an example?
- b) Explain about Work Management and Prioritization. [5+5]

OR

3. Explain the following with syntax and example.
 - a) Numeric
 - b) Character
 - c) Date
 - d) Array
 - e) Matrix. [15]
- 4.a) Explain about Random and Bivariate Random variables.
- b) What is Professionalism? How to exhibit Professionalism? [5+5]

OR

5. Explain about Central Limit Theorem in detail with example in R. [10]

- 6.a) What are the benefits of NO SQL?
b) List the NO SQL database examples. [5+5]
- OR**
- 7.a) Write the NO SQL database classification based on data model with examples.
b) List the steps for connecting R to NO SQL database. [5+5]
8. Explain the following:
a) Correlation
b) Auto correlation. [5+5]
- OR**
9. What is Heteroscedasticity? Explain in detail. [10]
10. Explain about Requirements Gathering related to a business. [10]
- OR**
11. Explain the concept of Understanding systems and Engineering Design. [10]

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