Code No: 116FA

R13

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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