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Code No: 136CF

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year II Semester Examinations, May - 2019

INTRODUCTION TO ANALYTICS (ASSOCIATE ANALYTICS -I)

(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) Name the meeting requirements. [2]
- b) Explain different file formats permissible in R. [3]
- c) Define central limit theorem. [2]
- d) What is effective work? [3]
- e) List the advantages of R over Excel. [2]
- f) How R is integrated with Excel? [3]
- g) Expand ANOVA and give its uses. [2]
- h) Differentiate forecasting and prediction. [3]
- i) What is a smart utility? [2]
- j) Give some business data formats. [3]

PART - B

(50 Marks)

- 2.a) What is a data frame in R? Give example.
 - b) Explain usage of loops in R with example. [5+5]
- OR
3. Elaborate on Quality standards Adherence. [10]
- 4.a) Elucidate on any 5 data summarizing functions in R.
 - b) What do you know about bivariate random variables? [5+5]
- OR
5. With an example scenario explain the importance of communication skills for effective work. [10]
 6. Describe the role of NOSQL in data analytics using an example. [10]
- OR
7. For a soap manufacturing unit, design a purchase system, and read and write to R data base. [10]

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8. Elaborate on different types of regression with an example. [10]

OR

9. What is a) heteroscedasticity? b) Auto correlation? [5+5]

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10. Elaborate on the steps for preparation, processing and interpretation of data analytics for the business improvement of super market. [10]

OR

11. Elaborate on production line of automotive technology and its data analysis. [10]

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