R13

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech III Year II Semester Examinations, December - 2018
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 are the challenges in analysis of data?	[2]
b)	Justify R has a data analytics software.	[3]
c)	List the types of variables available in R.	[2]
d)	Define effective communication skills.	[3]
e)	What is R connector?	[2]
f)	Give the uses of NOSQL databases.	[3]
g)	How correlation is used for data analysis?	[2]
h)	Expand ANOVA and list its unique features	[3]
i)	What type of data analysis is feasible for automating department activities?	[2]
j)	Name different business problems related to various businesses.	[3]

PART - B

(50 Marks)

2.a)	Explain R data frames with example.	
b)	Write a R program for matrix multiplication.	[5+5]

OR

3.a)	What are the looping structures available in R?	
b)	How to you find outliers in R?	[5+5]

4.	What is summarization of data? Explain different types of summarization in R.	[10]

OR

5.	Give an account on probability distribution and its computation in R.	[10]

6.	Write a R program to illustrate database connectivity.	[10]

OR

7.	Write about stored procedures in NOSQL. Explain with examples.	[10]

8.	Explain regression analysis. Give example.	[10]

OR

9.a)	Justify the importance of correlation for prediction.	
b)	Explain OLS regression.	[5+5]

10.	Write short note on understanding engineering design and manufacturing.	[10]

OR

11.	Compare and contrast the manufacturing and production activities data analysis with respect to technology.	[10]

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