R15

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech III Year II Semester Examinations, April - 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)	Define various data types.	[2]
b)	What are structured array? Give examples.	[3]
c)	Discuss about probability function.	[2]
d)	Calculate clear statistics for random variables.	[3]
e)	Explain about SQL data types.	[2]
f)	Describe about R connector.	[3]
g)	Explain types of correlation.	[2]
h)	What is periodogram? Give example.	[3]
i)	What are the problems related to a project?	[2]
j)	Explain Smart Utilities.	[3]

PART - B

(50 Marks)

2.a)	Describe working of data sets with their syntax and examples.	
b)	Discuss how R windows structure is useful to environment.	[5+5]
	OR	
3.a)	What are outliers combining datasets. Explain.	
b)	State about time management and work.	[5+5]
4.a)	Calculate probability for n*(n-1) functions.	
b)	Explain random variables.	[5+5]
	OR	
5.a)	Explain the clear summary about the probability and data.	
b)	Explain Teamwork communication and time management.	[5+5]
6.	Write a program in SQL to evaluate the program "COMMAND".	[10]
	OR	
7.a)	Differentiate between data integrity and data manipulator.	
b)	How data base connector is used to R-integrity?	[5+5]

8.a) Differentiate between regression and correlated analysis.
  b) Explain about Heteroscedasticity. [5+5]

OR

9.a) Distinguish between forecasting and regression.
  b) Explain about model of multi regression system. [5+5]

10.a) Explain about Automated mechanism design.
   b) Write an optimality function for a close loop system. [5+5]

OR

11. Explain about Individual rationality (IR) constraints and Incentive compatibility (IC) constraints. [10]

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