Code No: 763AC JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MBA III Semester Examinations, March/April - 2023 DATA ANALYTICS

Time: 3 Hours

Note: i) Question paper consists of Part A, Part B.

ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

PART - A

What is the importance of data analytics in business? [5] 1.a) What is the nature of Gaussian distribution? How is it, unique? b) [5] Distinguish between one- way and two-way ANOVA. c) [5] What does data exploration and reduction involve? d) [5] Briefly explain the use of decision tree analysis in problems involving a measure e) of probability, of success or failure. [5] PART - B (50 Marks) Why classification of data is considered hierarchical in nature? 2.a) Explain the use of by the chart for comparing stock characterisites. **b**) [5+5] **OR** What do you uncerstand by frequency distributions for categorical data? 3.a) Explain the process of computing percentiles. b) [5+5] With an example explain multiplication law of probability. 4.a) b) Explain the use of scatter chart for determining covariance. [5+5] OR

5.a) The students of a class have elected five candidates to represent them on the college management counticil.

Sl. No.	gender	Age in years	
1	male	18	
2	male	19	
3	female	22	
4	female	20	
5	male	23	

This group decides to elect a spokesperson by randomly drawing a name from a hat. Calculate the probablity of the spokesperson being either female or over 21 years.

b) Brief on data modeling.

[7+3]

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R19

Max.Marks:75

(25 Marks)

- 6.a) What are assumptions of linear discriminant analysis?
- Briefly explain the process of constructing regression line using the method of b) least squares. [5+5]

OR

7. Calculate the coefficient of correlation between X and Y from the following data: [10]

Marks in English (X)	2	5	4	6	9
Marks in	3	4	4	8	9
mathematics					
(Y)					

- Explain how disciminant analysis serves the purpose of classfiying new data. 8.a)
 - b) What is validation data set? How is it useful?

OR

[5+5]

[5+5]

- 9.a) How do you measure classification performance?
- What is cause and effect modeling? b)
- Write a small note on stochastic simulation and random numbers. 10.a)
 - What are the advantages and limitations of simulation models? b) [5+5]

OR•

11. Distinguish between solutions derived from simulation models and solutions from analytical models. Highlight some of the problem areas of application, where simulation is considered most preferable. [10]