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Code No: E761AD

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MBA I Semester Examinations, January - 2020

RESEARCH METHODOLOGY AND STATISTICAL ANALYSIS

Time: 3hours 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 5×5 Marks = 25 1.a) What are the features of a good research study? [5]

b) List and describe some sources of primary data collection. [5]
c) Differentiate between univariate and multivariate data. [5]

d) When is a t-test? What are its different types? [5]

e) What are some problems that are encountered while constructing index numbers? [5]

PART - B 5 × 10 Marks = 50

 What is meant by research? What are the objectives of research and its managerial value? What are the different types of research? Discuss in detail. [10]

OR

 Describe the research process in detail. Take an example of doing market research before launching a new product. [10]

What are the features of a good research design? [10]

OR

What is a research design? Discuss the different types of common research designs.

[10]

Define tabulation. Explain in detail the different parts of a table. [10]

OR

 What is a dependent sample or repeated measures t-test? Explain its use by giving a suitable example. [10]

What is ANOVA? How is an ANOVA table setup? [10]

OR

Use the sample data below to test the hypotheses

 $H_0: p1 = p2 = p3$

H₁: Not all population proportions are equal

Where p_i is the population proportion of Yes response for population i. Using a 0.05 level of significance, what is the p-value and what is your conclusion? [10]



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 What do you understand by Exploratory Factor Analysis? Explain its use-case and utility for research by giving a suitable example. [10]

OR

Consider the following time series data.

1	Week	1	2	3	4	5	6
1	Units	18	13	16	11	17	14

Develop a three-week moving average forecasts for this time series. Compute MSE and a forecast for week 7. Use alpha 0.2 to compute exponential smoothing forecasts for the time series.

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