



PRESIDENCY UNIVERSITY **BENGALURU**

SET A

SCHOOL OF MANAGEMENT END TERM EXAMINATION - JAN 2024

Semester: Semester V - 2021 Date: 08-JAN-2024

Course Code: BBB3003 Time: 1:00 PM - 4:00 PM

Max Marks: 100 **Course Name:** Essential statistics for Business Analytics Weightage: 50%

Program: BBA

Instructions:

- (i) Read all questions carefully and answer accordingly.
- (ii) Question paper consists of 3 parts.
- (iii) Scientific and non-programmable calculator are permitted.
- (iv) Do not write any information on the question paper other than Roll Number.

PART A

ANSWER ALL THE QUESTIONS

 $5 \times 2M = 10M$

1. Mention any two differences between Questionnaire Vs Schedule.

(CO1) [Knowledge]

2. Indicate the types of Classification of Data.

(CO2) [Knowledge]

3. What is hypothesis?

(CO3) [Knowledge]

Calculate Arithmetic Mean for the following data by Direct method

65 45

(CO4) [Knowledge]

5. If r = 0.8, and N = 16. Find out the Probable Error (P.E.)

(CO5) [Knowledge]

PART B

ANSWER ALL THE QUESTIONS

 $5 \times 10M = 50M$

6. Statistics as "Numerical statement of facts in any department of enquiry placed in relation to Each other ". Who is the father of Statistics? Explain the functions statistics.

(CO1) [Comprehension]

about:blank 1/2 7. Classification helps organize large sets of data into meaningful categories or classes. This structural order makes it easier to manage, retrieve, and analyze information systematically. Explain the various types of clasification of data

(CO2) [Comprehension]

8. Sampling techniques are crucial in various fields, including statistics, market research, quality control, and scientific research. The importance of sampling techniques lies in their ability to provide a representative subset of a population, enabling researchers to draw conclusions about the entire population without having to study every individual or elementSampling is a technique used in statistics to select a subset of individuals or items from a larger population. Discuss the various sampling techniques for selection of a sample from the population.

(CO3) [Comprehension]

9. Find out standard deviation from the following data

Age in years:	0-10	1020	20- 30	30-40	40-50	
No of persons:	18	30	22	10	6	

(CO4) [Comprehension]

10. Correlation is a statistical measure that describes the extent to which two variables change together. It quantifies the strength and direction of a linear relationship between two variables. The importance of correlations lies in its applications across various fields and its ability to provide valuable insights. Explain the various types of correlation

(CO5) [Comprehension]

PART C

ANSWER ALL THE QUESTIONS

 $2 \times 20M = 40M$

11. Calculate Quartile Deviation (Q D) from the following data.

Profits:	0-10	10-20	20-30	30-40	40-50	50-60
No. of Companies	5	12	20	16	5	2

(CO4) [Application]

12. Find out two regression equations

	Х	6	2	10	4	8
ĺ	Υ	9	11	5	8	7

(CO5) [Application]

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