Roll No										

PRESIDENCY UNIVERSITY
BENGALURU

SCHOOL OF MANAGEMENT
MID TERM EXAMINATION - MAY 2023

Semester : Semester II - 2022 - 23 - BBA - 2022   **Date :** 22-MAY-2023
Course Code : SOC2003   **Time :** 2.00 PM - 3.30 PM
Course Name : Sem II - SOC2003 - Business Statistics   **Max Marks :** 50
Program : BBA   **Weightage :** 25%

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 X 2 = 10M)**

1. Number of votes casted in a particular constituency in the last ten legislative assembly election is an example of;
   a) Qualitative variable   (CO1) [Knowledge]
   b) Continuous variable
   c) Discrete variable
   d) None of them

2. The characteristic of the entity about which statistical data is collected is terms as
   a) Observation   (CO2) [Knowledge]
   b) Element
   c) Measurement
   d) Variable

3. The process of assigning quantitative identity to the variable in the statistical data processing is termed as
   a) Data processing   (CO1) [Knowledge]
   b) Measurement
   c) Classificaiton
   d) Tabulation

4. Given a set of observations 10,12,15, 20,17, 25,30, 5, 10, 950, which of the below given measures of central tendency will present a highly defective or biased summary value due to outliers
   a) Arithmetic Mean   (CO1) [Knowledge]
   b) Median
   c) Harmonic Mean
   d) All of them

5. Which among the following measure of central tendency is the most suited method in case of summarizing data on growth rates, percentages or ratios
   a) Median   (CO2) [Knowledge]
   b) Geometric Mean
   c) Mode
   d) None of them

PART B

ANSWER ALL THE QUESTIONS   (2 X 10 = 20M)

6. Given below is the raw data on runs scored by 40 different batsmen in a cricket tournament. Classify this data using appropriate techniques and present the Less than Ogive based on classification

7	28	15	41	15	18	9	52	54	10
38	20	55	55	40	6	45	48	5	33
15	6	0	2	10	6	17	48	5	57
35	5	24	21	60	0	10	23	20	15

(CO1) [Comprehension]

7. Discuss meaning, scope and importance of statistics as a subject

(CO1) [Comprehension]

PART C

ANSWER THE FOLLOWING QUESTION   (1 X 20 = 20M)

8. Given below is the number of households with different ranges of monthly income. Present the data in Histogram and calculate Median and Mode of the distribution.

Monthly income ('000')	10-30	30-50	50-70	70-90	90-110	110-130	130-150
Number of households	20	30	40	25	10	15	5

(CO2) [Application]