Roll No											

PRESIDENCY UNIVERSITY
BENGALURU

SCHOOL OF INFORMATION SCIENCE
MID TERM EXAMINATION - APR 2023

Semester : Semester II - 2022
Course Code : MAT1006
Course Name : Sem II - MAT1006 - Statistical Methods and Techniques
Program : BCA&BCG

Date : 12-APR-2023
Time : 9.30AM - 11.00AM
Max Marks : 50
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. State the formula for computation of arithmetic mean for a grouped data distribution.

(CO1) [Knowledge]

2. Identify the mode for the following data

X	25	35	45	55	65	75	85
F	10	12	17	22	16	15	11

(CO1) [Knowledge]

3. Daily wages in Rs. of 7 workers are as follows (Rs.) : 12, 8, 9, 10, 7, 14, 15. Recognize range.

(CO1) [Knowledge]

4. Discuss the result or average of the distribution: Mode is 11 , median is 13.

(CO2) [Knowledge]

5. Theoretically, the value of Karl Pearson's coefficient of skewness varies between_____.

(CO2) [Knowledge]

PART B

ANSWER ALL THE QUESTIONS **(4 X 5 = 20M)**

6. Discuss A.M. for the following data,

AGE GROUP	0 - 20	20 - 40	40 - 60	60 - 80	80 - 100
FREQUENCY	4	8	10	15	20

(CO1) [Comprehension]

7. Discuss co-efficiency of quartile deviation.

X	10	20	30	40	50
F	5	7	9	10	8

(CO1) [Comprehension]

8. For a moderately skewed distribution, AM = 112, Mode = 110 and s.d. = 40. Discuss Median.

(CO2) [Comprehension]

9. Discuss the Absolute skewness for the following data 7,6,7,8,9 .

(CO2) [Comprehension]

PART C

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

10. Compute standard deviation for the following data

MARKS	5	15	25	35
NO.OF STUDENTS	5	8	5	16

(CO1) [Application]

11. Compute the coefficent of skewness 3,5,8,5,9.

(CO2) [Application]