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SUBJECT CODE NO: - XX-3519
FACULTY OF COMMERCE AND MANAGEMENT
B.Com F.Y (Sem. I)
Examination May / June - 2023
Business Mathematics & Statistics-I

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[Time: 3:00 Hours]   **[Max. Marks: 80]**

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Please check whether you have got the right question paper.

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N. B   1) Question Number 1 is compulsory.

2) Solve any four Question from 2 to 7.

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Section - 'A'

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Q1   A) Fill in the Blanks.   05

1) The _____ is the Most Frequently Occurring observation.

2) Facts or figures, collected with a definite purpose, are called _____.

3) Median divides the total frequency into _____ equal parts.

4) Average of a data is called _____.

5) value of the Middle -most observation(s) is called _____.

B) Answer in one sentence.   05

1) The measures of dispersion con Never be?

2) Which of the following is an absolute Measure of dispersion?

3) Mean deviation computed from asset of data is always?

4) Median divides the total frequency into which parts?

5) What is primary data?

C) Select the Most appropriate answer.   05

1) Statistics branches include

a) Applied Statistics   b) Mathematical Statistic

c) Industry Statistics   d) Both a and b

2) Statistics are always.

a) Estimated Values   b) Exact Values

c) Constant Values   d) None of these

3) Statistics is defined as the numerical data in.

a) Plural sense   b) Singular sense

c) a & b   d) None of these

4) A descriptive measure computed from population data is

a) Parameter   b) Statistics   c) Constant   d) None of these

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1

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5) Statistics has origin in
   a) Latin word status
   b) Italian word
   c) German word statistic
   d) None of these

D) State whether the following statements are true or false.   05
   1) Statistics is affected by multiplicity of causes.
   2) Statistics is numerically expressed.
   3) Statistics cannot be used in Research.
   4) Statistics is a Science.
   5) Statistics are aggregates on facts.

Q2 From the following table calculate Mean, Median & Mode.   15

Marks obtained	No. of Students
0-10	5
10-20	8
20-30	7
30-40	12
40-50	28
50-60	20
60-70	10
70-80	10

Q3 Find out co-efficient of Mean deviation by Using mean $(\bar{X})$ from the following data.   15

Class	0-3	3-6	6-9	9-12	12-15	15-18	18-21
Frequency	2	7	10	12	9	6	4

Q4 Find the Matrix 'X' such that A+ X = B.   15

$$If\ A = \begin{bmatrix} 5 & 15 \\ 10 & -25 \end{bmatrix} and\ B = \begin{bmatrix} 35 & 25 \\ 10 & 50 \end{bmatrix}$$

2

Q5 Find the Value of determinant (without Expanding).   15

$$\begin{vmatrix} 1 & 1 & 1 \\ 15 & 20 & 25 \\ 32 & 44 & 64 \end{vmatrix}$$

Q6 Calculate the Karl person co-efficient of skewness from the following date.   15

Marks	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80
No. of student	4	8	11	15	12	6	3	1

Q7 $If \ A = \begin{bmatrix} 3 & 5 \\ 2 & x \end{bmatrix}, B = \begin{bmatrix} 4 & y \\ 2 & 9 \end{bmatrix} \ and \ C = \begin{bmatrix} 26 & x \\ 14 & 45 \end{bmatrix}$ 15

Find the value of x and y

If 2A+5B=C

3