PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BA DEGREE EXAMINATION DECEMBER 2023
(Third Semester)

Branch: SOCIOLOGY

SOCIAL STATISTICS–I WITH COMPUTER APPLICATION

Time: Three Hours   Maximum: 50 Marks

SECTION-A (5 Marks)
Answer ALL questions
ALL questions carry EQUAL marks   (5 x 1 = 5)

1. Statistics deals with
   (i) Single data (ii) grouped data (iii) qualitative data (iv) All the above

2. Which of the following is not a graphical method of presenting data?
   (i) Bar diagram   (ii) ogives   (ii) Histogram   (iv) Frequency polygon

3. Which of the following is not a disadvantage of using mean?
   (i) It is affected by extreme values
   (ii) It cannot be computed in grouped data with open-ended class intervals
   (iii) It does not possess the desired algebraic property
   (iv) None of the above

4. The method of calculating skewness which is based on the positions of quartiles
   and median of the distribution is called_____
   (i) Gary's coefficient of skewness (ii) Bowley's coefficient of skewness
   (iii) Jack Karl's coefficient of skewness (iv) Spearman's coefficient of skewness

5. What is the extension of a Microsoft Excel file?
   (i) msxc   (ii) xcl   (iii) xlsx   (iv) xlsm

SECTION - B (15 Marks)
Answer ALL Questions
ALL Questions Carry EQUAL Marks   (5 x 3 = 15)

6. (a) Gives that scope of the statistics
                        OR
    (b) Define the any two types of data.

7. (a) Explain types of classifications.
                        OR
    (b) State any two differences between diagrams and graphs.

8. (a) What are The main uses of harmonic means?
                        OR
    (b) Define range and coefficient of range.

9. (a) Describe the Bowley's coefficient of skewness.
                        OR
    (b) Elaborate the scatter diagram.

10. (a) What is Excel in short answer?

OR

(b) What are the basic excel functions?

SECTION -C (30 Marks)
Answer ALL questions

ALL questions carry EQUAL Marks   (5 x 6 = 30)

11.(a) Describe the preparation of questionnaire.

OR

(b) Explain the methods of collection the primary data.

12. (a) Construct the following data by a pie diagram

Items	Food	Clothing	Education	Rent		Fuel	Others
Expenditure	87	24	13	25		11	20

OR

(b)Explain less than and more than ogive curves.

13. (a) From the following data calculate the median marks.

Marks	10-25	25-40	40-55	55-70	70-85	85-100
Frequency	6	20	44	26	3	1

OR

(b) Find out the mean deviation about mean.

X	2	4	6	8	10
F	1	4	6	4	1

14. (a) Find the Karl Pearson's coefficient of skewness for the following data.

Class Interval	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80
Frequency	5	6	11	21	35	30	22	11

OR

(b). Distinguish between correlation and regression.

15. (a) Write the working procedure of find the mean and median in Excel.

OR

(b) Write the working procedure of find the standard deviation in Excel.

Z-Z-Z   END