

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BA DEGREE EXAMINATION MAY 2019
(Third Semester)

Branch - **SOCIOLOGY**

SOCIAL STATISTICS -1 WITH COMPUTER APPLICATIONS

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** marks (10 x 2 = 20)

- 1 State any two limitations of statistics.
- 2 Define systematic random sampling.
- 3 Difference between classification and tabulation.
- 4 What is meant by grouped frequency distribution?
- 5 Define quartile deviation.
- 6 Define coefficient of variation.
- 7 What is kurtosis?
- 8 Define correlation.
- 9 How to copy the excel document into another excel document?
- 10 What is spread sheet?

SECTION - B (25 Marks!)

Answer **ALL** Questions

ALL Questions Carry **EQUAL** Marks (5 x 5 = 25)

- 11 a Explain in detail about methods of collecting dates.
OR
b Explain the nature and scope of statistics.
- 12 a Explain various types of classification.
OR
b Explain in detail about diagrammatic representation of statistical data.
- 13 a The following is the age distribution of 100 persons in a street. Calculate the arithmetic mean.

Age group:	0-10	10-20	20-30	30-40	40-50	50-60
No. of persons:	5	10	25	30	20	10

OR

b From the following data, calculate quartile deviation and its coefficient
1490, 692, 777, 335, 582, 488, 753, 384, 407, 672, 522.
- 14 a Explain Scatter diagram.
OR
b Calculate the rank correlation between the ranks given for X and Y series

X:	10	8	12	6	9	3	5	4	7
Y:	6	10	5	4	3	1	2	9	8
- 15 a Explain the steps to be followed to find median.
OR
b Explain the steps to be followed to find mode.

SECTION - C (30 Marks)Answer any **THREE** Questions**ALL** Questions Carry **EQUAL** Marks (3 x 10 = 30)

- 16 Explain in detail about probability sampling.
- 17 Draw Ogive current for the following data
 Cl : 10-20 20-30 30-40 40-50 50-60 60-70
 f: 2 5 7 12 9 4
- 18 From the following data, find out which product is more stable in prices
 Prices of product A (Rs.) : 20 22 19 23 16
 Prices of product B (Rs.) : 10 20 18 12 15
- 19 Calculate the Kurtosis for the following data
 Marks : 0-10 10-20 20-30 30-40 40-50 50-60
 f: 5 20 15 45 10 5
- 20 Explain in detail about how to perform simple bar diagram using MS Excel.

Z-Z-Z

END