

**PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)**

**BA DEGREE EXAMINATION DECEMBER 2018
(Third Semester)**

Branch – **SOCIOLOGY**

SOCIAL STATISTICS – I 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 What is Primary Data?
- 2 Define Simple random sampling.
- 3 Define Classification.
- 4 Mention the types of diagrammatic representation of statistical data.
- 5 Define Median.
- 6 Define Standard Deviation.
- 7 What is meant by Skewness?
- 8 Define regression coefficients.
- 9 How do we create a new file in MS Excel.
- 10 State the uses of MS Excel.

SECTION - B (25 Marks)

Answer **ALL** Questions

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

- 11 a Write down the limitation of statistics.
OR
b Explain the merits and limitations of Sampling.
- 12 a Explain the method of forming a frequency distribution from the ungrouped data.
OR
b What is meant by tabulation? What are the general rules to be followed in tabulation?

- 13 a Calculate Median from the following data:

X	25	30	35	40	45	50	55
Y	7	11	17	15	14	10	11

OR

- b Compute Quartile Deviation and its coefficient.

Weight	60	61	62	63	65	80	75	70
No of Workers	1	3	5	7	10	1	3	1

- 14 a Calculate Karl Pearson's coefficient of Skewness from the data given below:

Size (x)	1	2	3	4	5	6	7
Frequency (f)	10	18	30	25	12	3	2

OR

- b Calculate the rank correlation from the following data.

X	52	63	45	36	72	65	47	25
Y	62	53	51	25	79	43	60	33

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

16 Explain in detail the methods of collecting primary data.

17 Find the median for the following data using Ogive curve.

CI	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80
f	5	17	22	45	51	31	20	9

18 Calculate coefficient of variation for the following data.

x	3.5	4.5	5.5	6.5	7.5	8.5	9.5
f	3	7	22	60	85	32	8

19 Obtain the two regression equations from the following data.

X	4	5	6	8	11
Y	12	10	8	7	5

20 Explain the procedure for calculating standard deviation using MS Excel.

Z-Z-Z

END