

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)  
BA DEGREE EXAMINATION MAY 2017  
(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 (10x2 = 20)

- 1 Define primary data.
- 2 Define sample.
- 3 . Mention the parts of tabulation.
- 4 Write the two kinds of frequency distribution.
- 5 Define median.
- 6 What are all the measures of dispersion?
- 7 Define Skewness.
- 8 Write down the normal equations for  $Y = a + bX$ .
- 9 What is Microsoft Excel?
- 10 How can you add a new excel worksheet?

SECTION - B (25 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5x5 = 25)

- 11 a How to frame a Questionnaire?  
OR  
b Explain systematic sampling.
- 12 a Explain the types of tables.  
OR  
b Make a frequency distribution with intervals of 10 from the following data  
40, 36, 43, 57, 81, 90, 92,74, 66, 85,41, 57, 34, 63, 84, 93, 71, 55, 56, 63,  
39,44, 59, 43, 90, 82, 88, 72, 73,45, 53, 64, 79, 85, 95, 68, 65, 69, 83, 80.
- 13 a Mention the properties of measure of variation  
OR  
b Calculate standard deviation from the following data  
Marks: . 10 20 30 40 50 60  
No. of students: 8 12 20 10 7 3
- 14 a Why do we go for two regression lines?  
OR  
b Following are the rank obtained by 10 students in two subjects statistics and commerce. To what extent the knowledge of the students in two subjects is\* related?  
Statistics: 1 2 3 4 5 6 7 8 9 10  
Commerce: 24 1 5 3 9 7 106 8

Cont...

15 a What is the benefit of using formula in excel sheet?

OR

b Explain the steps to be followed to find median in MS-Excel.

**SECTION - C (30 Marks)**

Answer any THREE Questions

ALL Questions Carry EQUAL Marks (3 x 10 = 30)

16 Explain secondary data.

17 Distinguish between diagrammatic and graphical representation of statistical data.

18 Calculate mean and median from the following data

Profits per shop (Rs.):	100-200	200-300	300-400	400-500	500-600	600-700	700-800
No. of shops:	10	18	20	26	30	28	18

19 Calculate the first four moments from the following data and find out  $\mu_1$  and  $\mu_2$ -

x	1	2	3	4	5	6	7	8	
f	5	10	15	20	25	20	15	10	5

20 Explain detail how to perform line chart and pie chart in excel with example.

**Z-Z-Z**

**END**