

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

**Branch- ECONOMICS**

**STATISTICAL METHODS -1**

Time : Three Hours

Maximum : 75 Marks

**SECTION-A (20 Marks)**

Answer **ALL** questions

**ALL** questions carry **EQUAL** marks

(10x2 = 20)

- 1 Statistics.
- 2 Secondary data.
- 3 Pie Diagram.
- 4 Ogives.
- 5 Modes.
- 6 Range.
- 7 Positive Skewness.
- 8 Kurtosis.
- 9 Scatter Diagram.
- 10 Regression.

**SECTION - B (25 Marks!)**

Answer **ALL** Questions

**ALL** Questions Carry **EQUAL** Marks

(5x5 = 25)

- 11 a Explain the various methods of collecting primary data.

OR

- b Write a note on Drafting Questionnaire.

- 12 a Explain the different types of Bar Diagrams.

OR

- b Point out the General Rules for constructing Diagram.

- 13 a

Marks:	10	20	30	40	50	60
f:	8	12	20	10	7	3

OR

- b Discuss - Lorenz Curve.

- 14 a Explain the concept of moments.

OR

- b Find the Karl Pearson's coefficient of Skewness from the data given below:

Size:	3	4	5	6	7	8	9	10
Frequency	7	10	14	35	102	136	43	8

- 15 a What are the difference between Correlation and Regression.

OR

- b Compare the regression equation of Y and X from the following data:

X:	46	42	44	40	43	41	45
Y:	40	38	36	35	39	37	41

**Cont...**

**SECTION - C (30 Marks)**

Answer any **THREE** Questions  
**ALL** Questions Carry **EQUAL** Marks

(3 x 10 = 30)

- 16 Discuss the various types of sampling.  
 17 Explain the parts and types of table.  
 18 The scores of two batsmen A and B in ten innings during a certain season are:

A	32	28	47	63	71	39	10	60	96	14
B	19	31	48	53	67	90	10	62	40	80

and using coefficient of variation which of the two batsmen A,B- is more consistent in scoring.

- 19 Calculate Bowley 's coefficient of Skewness

Annual sales (in Rs. '000):	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100
No. of items:	5	4	8	12	16	15	10	8	5	2

- 20 Calculate the Karl Pearson's Co-efficient of correlation for the following data:

X:	46	33	41	38	36	45~	34	37	50	40
Y:	12	13	24	16	15	14	21	17	19	19

Z-Z-Z

END