

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BA DEGREE EXAMINATION MAY 2017
(Third Semester)

Branch-ECONOMICS

STATISTICAL METHODS - I

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(10x2 = 20)

Define the following:

- 1 Statistics
- 2 Primary data.
- 3 Classification.
- 4 Frequency Polygon.
- 5 Mean Deviation.
- 6 Lorenz Curve.
- 7 -Skewness.
- 8 Kurtosis.
- 9 Correlation.
- 10 Regression.

SECTION - B (25 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5x5 = 25)

- 11 a Briefly explain the various methods of collecting primary data.

.OR

- b State the various methods of non-probability sampling.

- 12 a What are the general rules for constructing a diagram?

OR

- b Explain the various types of tables.

- 13 a What are the merits and demerits of arithmetic mean?

OR

- b Calculate standard deviation for the following data.

Class interval:	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45
Frequency:	6	5	15	10	5	4	3	2

- 14 a Explain the meaning of moment.-

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

Cont...

15 a What are the types of Correlation?

OR

b Compute the regression equation of Y on X from the following data:

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

SECTION - C (30 Marks)

Answer any THREE Questions

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

16 Discuss the limitations of Statistics.

17 Explain the various types of classification.

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

Find Coefficient of variation which of the two batsmen A,B- is more consistent in scoring.

19 Calculate Pearson's Coefficient of Skewness for the following data:

Wages (Rs.):	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50
No. of Workers:	8	16	30	45	62	32	15	6

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