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PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2019

(Third Semester)

Branch-BOTANY

BIOSTATISTICS

Time: Three Hours Maximum: 75 Marks

SECTION-A (20 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** marks $(10 \times 2 = 20)$

- 1 Define Biostatistics.
- Write any two sources of secondary data.
- Write the parts of the table.
- Write any two uses of diagrammatic representation.
- 5 Give formula for median. When the data is continuous.
- 6 Calculate mean for the following data:

47 49 55 65 23 11 45 99 76

- 7 Calculate range and co-efficient of range for the following data 7, 5, 125,20, 55,23,55, 77
- 8 Write formula for standard deviation.
- 9 Define Correlation.
- 10 Write regression equation of Y on X.

SECTION - B (25 Marks)

Answer ALL Questions

ALL Questions Carry **EQUAL** Marks $(5 \times 5 = 25)$

11 a Explain the concept of sample and population.

OR

- b Discuss the sources of secondary data.
- 12 a Explain any two types of classification.

OR

b Draw histogram and frequency curve for the following data:

Class intervals	58-61	61-64	64-67	67-70	70-73	73-76	76-79
Frequency	2	10	48	64	56	16	4

13 a Write the merits of arithmetic mean.

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b Calculate median and mode for the following data.

Mark	S		4	5	6	7	8	9
No. o	f Studer	nts	8	10	9	6	4	3
Calcu late Standard c eviation.								
x	6	7	8	9	10	11	12	
f	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			13	8	5	4	

OR

b Calculate Quartile deviation and its coefficient from the following data.

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

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Cont...

15 a Explain types of correlation with example.

OR

b Calculate Rank correlation coefficient.

Treatment A	55	12	17	15	85	58	78
Treatment B	12	43	15	67	99	22	31

SECTION - C (30 Marks)

Answer any THREE Questions

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

- Discuss any three methods of collecting primary data.
- Explain different types diagrammatic and graphical representation.
- Calculate mean, median and mode for the following data.

Class Interval	10-15	15-20	20-25	25-30	30-35	35-40
Frequency	11	20	35	20	8	6

19 Find which treatment is more efficient using coefficient of variation.

Treatment A	4	8	4	15	10	11	9
Treatment B	12	8	3	15	6	4	10

20 Obtain the line of regression Y on X for the following data:

Age (yrs) x	66	38	56	42	72	36	63	47	55	45
Blood Pressure y	145	124	147	125	160.	118	149	128	150	124

END