

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)  
BSc DEGREE EXAMINATION DECEMBER 2018  
(Third Semester)  
Branch-BOTANY  
**BIostatISTICS**

Time : Three Hours , Maximum : 75 Marks

**SECTION-A (20 Marks!)**

Answer ALL questions

ALL questions carry EQUAL marks (10x2 = 20)

- 1 Define Population and Sample.
- 2 What is meant by Primary data?
- 3 Define Tabulation.
- 4 Write any two uses of diagrammatic presentation.
- 5 Find mean of the following data:  
43,48,65,57,31,60,37,48,78,59!
- 6 Write median formula for individual data when number of values are even.
- 7 Find the range and the coefficient of range for the following data:  
200,210,208,160,220,250.
- 8 What is the use of Coefficient of Variation?
- 9 What is meant by Correlation?
- 10 Write formula for regression coefficient of X on Y.

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

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5x5 =25)

- 11 a Write the different source for secondary data.  
OR  
b What is meant by Biostatistics?
- 12 a What is meant by Classification and explain its types?  
OR  
b Explain the procedure of drawing frequency polygon.
13. a Write the properties of Good average.  
OR ; ■ ■ ■  
b

Daily Wages (in Rs.)	60	80	100	120	160	180	200
No. of Persons	5	8	<i>n</i>	22	10	7	6

- 14 a Calculate Quartile deviation and its coefficient from the following data:

Weight (in kgs)	60	61	62	63	65	70	75	80
No. of Workers	1	3	5	7	10	3	1	1

OR

- b Calculate Standard deviation from the following set of observation:  
8,9,15,23,5,11,19,8,10,12.
- 15 a Write brief notes on types of correlation and write its uses in Biostatistics.

OR ...

- b Find the coefficient of correlation between the sales and expenses for

Allowing 10 firms(.000Rs.)										
Firms	1	2	3	4	5	6	7	8	9	10
Sales	50	50	55	60	65	65	65	60	60	50

**SECTION - C (30 Marks)**

■ Answer any **THREE** Questions ;;  
**ALL** Questions Carry **EQUAL** Marks (3 x 10 = 30) .

16 Describe the methods of collecting primary data.

17 Draw ogives (less than and more than) from the following distribution.

Age (in years)	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60
No of employees	50	70	100	180	150	120	70	59

18 Calculate mean, median and mode from the following frequency distribution.

Class	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80
Frequency	7	32	56	106	180	164	86	44

19 Calculate the coefficient of variation of the drugs used to certain treatment and find which drug is more efficient during the treatment.

Drug 1	4	8	4	15	10	11	9
Drug 2	12	8	3	15	6	4	10

20 Calculate two regression equations, for the following data.

Age	56	42	36	47	49	42	60	72	63	55
Blood Pressure	147	125	118	128	145	140	155	160	149	150

Z-Z-Z

END