

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION MAY 2019
(Third Semester)
Branch - BOTANY

BIOLOGICAL DATA ANALYSIS

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (10 x 2 = 20)

- 1 What is data?
- 2 Define variable.
- 3 What do you mean by range chart?
- 4 Define histogram.
- 5 Write a short note on 'Median'.
- 6 What do you mean by dispersion?
- 7 Define standard error.
- 8 Differentiate partial correlation from total correlation.
- 9 What is regression?
- 10 Differentiate dependent variable from independent variable.

SECTION - B (25 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 5 = 25)

- 11 a Write the role of biostatistics of bioscience.
OR
b Describe the qualitative and quantitative data with suitable example.
- 12 a Explain the methods of classification of data.
OR
b Write about histogram and add a note its uses.
- 13 a Compute the mean for the following data.

No. of children	0	1	9	i	5	6	
bom / family :							
No. of families:	7	7	10	5	3	2	1

OR
b Explain mode. Add a note on its merits and demerits.
- 14 a Write a short note on correlation and add a note on its uses.
OR
b Explain the graphic methods of studying correlation.
- 15 a Write a short note on regression line.
OR
b Explain the types of regression analysis studied by you.

SECTION - C (30 Marks)

Answer any THREE Questions

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

- 16 Describe the various sampling methods studied by you.
- 17 Explain the methods of graphic representation of data.
- 18 Calculate the standard deviation for the following data.

x:	18	19	20	21	22	23	24	25	26	27
f:	3	7	11	14	18	17	13	8	5	4
- 19 Explain the types of correlation.