PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION DECEMBER 2018
(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   (1 0 x 2 = 20)

1   Define 'Biostatistics'.
2   What is Sample?
3   Define 'foot note'.
4   What is stub?
5   Define mode value.
6   What is Range?
7   Write any two uses of correlation.
8   Standard Error.
9   What is regression line?
10   What is simple regression?

SECTION - B (25 Marks!
Answer **ALL** Questions
ALL Questions Carry **EQUAL** Marks (5 x 5 = 25)

11 a What is data? Explain its types with example.
OR
b Write the advantages and disadvantages of sampling.

12 a   Describe the different parts of the table.
OR
Draw a histogram with frequency polygon for the following data.

Marks	0-10	10-20	20-30	30-40	40-50	50-60	60-70
No. of Students	5	7	10	15	13	10	6

13 a Explain the mean and its merits.
OR
b What is dispersion? Briefly explain the different measures of dispersion studied by you.

14 a Describe the types of correlation.

OR
b Explain the graphic methods of studying correlation.

15 a   Briefly explain regression.
OR
b Give an account of viral statistics.

SECTION - C (30 Marks!
Answer any **THREE** Questions
ALL Questions Carry **EQUAL** Marks (3 x 10 = 30)

16   Explain the methods of sampling.
17   Explain the methods of classification of data.
Calculate the standard deviation for the following data.

Length in cm (x)	10	20	30	40	50	60
No. of fruits (f)	8	12	20	10	7	3