

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)  
BSc DEGREE EXAMINATION MAY 2017  
(Third Semester)  
Branch- BOTANY  
BIostatISTICS

Time : Three Hours

j Maximum : 75 Marks

SECTION-A (20 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (10 x2 = 20)

- 1 What do you mean by population? Give an example.
- 2 Write any two sources of secondary data.
- 3 Define classification.
- 4 Give any two uses of diagrammatic representation.
- 5 Find Arithmetic mean for the following data.  
40 50 55 78 58 60 73 35 43 48
- 6 Write the formula for median if the data is raw data.
- 7 Find Quartile deviation and its coefficient if  $Q_x = 251$  and  $Q_3 = 262$ .
- 8 Write formula for mean deviation for continuous data.
- 9 Define correlation.
- 10 Write the two regression equations.

SECTION - B (25 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5x5 = 25)

- 11 a Explain the sampling method.  
OR  
b Define Biostatistics and write some biological variable.

- 12 a Explain the different parts of lable.  
OR  
b Draw less than Ogive curve for the following table :

Marks : 0-10 10-20 20-30 30-40 40-50 50-60

f : 3                      9              15              30              18              5

- 13 a Write the characteristic of good average.  
OR  
b Calculate Median and mode for the following data:

size of shoes : 5              5.5 6 6.5              7              7.5              8

Frequency : 10              16 28 15              30              40              34

- 14 a Calculate the mean deviation from the following data:  
Class interval : 2-4 4-6 6-8 8-10  
Frequency :              3              4              2              1

OR

- b Calculate standard deviation from the following data:

.Class:              0-10              10-20              20-30              30-40'              40-50              50-60              60-70.  
Frequency:              8              12              17              14              9'              1              4

