PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION MAY 2018
(Third Semester)

Branch - ZOOLOGY

BIOSTATISTICS

Time : Three Hours   Maximum : 75 Marks

SECTION-A (20 Marks)
Answer ALL questions
ALL questions carry EQUAL marks   (10 x 2 = 20)

1   Define Biostatistics.
2   What is meant by Secondary Data?
3   Define Classification.
4   What are the types of Diagrams?
5   What are the measures of Central Tendency?
6   What is Mode?
7   Define Range.
8   Define Standard Deviation.
9   What are the types of Correlation?
10   Define Regression.

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

11 a Explain the types of Variables.

OR

   b What are the methods of collecting Secondary data?

12 a What are the types of Classification?

OR

   b Explain the parts of a Table.

13 a   find out the median for Te following data:

Marks	3	4	5	6	7	8	9	10
Number of Students	1	5	6	7	1	10	15	10	5

OR

   b   Calculate the mode for the given data;

X	1	2	3	4	5	6:7	8	9	10	11	12
frequency	3	8	15	'23	35	40	32	28	20	45	14	6

14 a Calculate the Range and Coefficient of Range for the following data:

X: 41   11   14   65   73   64   53   35   71   55

OR

   b Compute the Standard Deviation for the following data.(individual Series)

X: 600   620   640   620   680   670

Y: 680   640   700   650

15 a Explain the properties of Correlation.

OR

   b Calculate the rank correlation for the given data:

Statistics:	1	2	3	4	5	6	7	8	9	10
Biology:	2	4	1	5	3	9	7	10	6	8

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

16   What are the methods of Collecting Primary Data?

17   Draw the pie-chart from the given data.

Agriculture	14%
Irrigation	16%
Small Industries	29%
Transport	17%
Social Service	16%
Inventories	8%

18 Calculate the Mode for the given data.

Class Interval	10-15	15-20	20-25	25-30	30-35
Frequency	40	62	• 75	100	65

19 Compute the Coefficient of variation for the given data.

C.I	0-10	10-20	20-30	30-40	40-50	50-60'	60-70	70-80
Frequency	15	5	23	22	25	10	5	10

   20 The following table shows the ages(X) and blood pressure(Y) of 8 persons

X	52	63	45	36	72	65	47	25
Y	62	53	51	25	79	43	60	33

   Obtain the two regression equations. Find the pressure when age 45 years old.

Z-Z-Z   END