PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2017
(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 Bio-statistics.

2 Define secondary data.

3 Write any two objectives of classification of data.

4 Define tabulation of data.

5 Define median.

6 Find the mode : 50, 62, 75, 50, 32, 25, 50.

7 What is meant by measures of variation?

8 Write any two uses of mean deviation.

9 Write the formula for rank correlation.

10 Define regression.

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

11 a Explain the source of collecting primary data .

OR

b What are the limitations of statistics?

12 a Draw a bar diagram of the procurement of rice in an Indian state.

Year:	1978	1979	1980	1981	1982	1983
Rice (in tons) :	4500	5700-	6100	6500	4300	7800

OR

b What are the rules for drawing a diagram?

13 a Calculate the mean for the following data.

X:	20	30	40	50	60	70
Frequency :	8	12	20	10	**6**	4

OR

b Write the merits and demerits of mode.

14 a Calculate Q.D and coefficient of quartiie deviation for the given data.

Marks :	10	20	30	40	50	60
No. of students:	4	7	15	8	7	2

OR

b What are the merits and demerits of standard deviation?

15 a Explain the properties of regression.

OR

b Explain the types of correlation.

Cont.

SECTION - C (30 Marks)

Answer any THREE Questions

ALL Questions Carry EQUAL Marks (3 x 1 0 = 30)

16 Define questionnaire. Describe about the characteristics of a good questionnaire.

17 Draw a histogram and frequency polygon from the given data.

C . I :	100-150	150-200	200-250	250-300	300-350
Frequency:	4	6	13	5	2

18 Calculate mean and mode for the given data.

C . I :	0-10	10-20	20-30	30-40	40-50	50-60
Frequency:	12	18	27	20	17	6

19 Calculate mean and S.D for the given data.

Age:	20-30	30-40	40-50	50-60	60-70	70-80	80-90
No. of members :	3	61	132	153	140	51	2

20 Calculate the correlation co-efficient for the given data.

X:	65	66	67	67	68	69	70	72
Y:	67	68	65	68	72	72	69	71

Z-Z-Z END