PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2022

(Third Semester)

Branch - BOTANY

BIOLOGICAL DATA ANALYSIS

Time: Three Hours Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

 $(5 \times 1 = 5)$

- 1 The study of collection, analysis and interpretation of data is called (i) Bio chemistry (ii) Biophysics (iii) Biology (iv) Bio statistics 2 Data collected directly from the population is called (i) Primary data (ii) Secondary data (iii) Principal data (iv) Tertiary data SD stands for 3 (i) Standard deviation (ii) Sum of deviation (iii) Sample deviation (iv) Statistics deviation
- 4 Positive correlation is called
 - (i) Inverse correlation
- (ii) Direct correlation

(iii) Total correlation

- (iv) Correlation co-efficient
- What will be the name of the data obtained from direct personal interview?
 - (i) Duplicate

(ii) Copy

(iii) Informant

(iv) Original

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry **EQUAL** Marks

 $(5 \times 3 = 15)$

6 a. Write short notes on quantitative data

OR

- b. Define Bio statistics.
- a. Sketch the Graphic presentation of Data.

OR

- b. Explain primary data and its merits.
- 8 a. Explain Geometric mean.

OR.

b. Calculate the mode from the following data recorded on numbers of tillers Per Plant.

SL.NO	1	2	3	4	5	6	7	8	9	10
No. Of. tillers	10	24	27	12	24	24	18	15	30	20

1	8BOU10	
	Cont	

9 a. Describe the rank correlation.

OR

- b. Outline the standard error.
- 10 a. Bring out the uses of regression analysis.

OR

b. Solve the Regression analysis.

SECTION -C (30 Marks)

Answer ALL questions
ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11 a. Describe the application of statistics in Bio science

OR

- b. Examine the samples and sampling methods.
- 12 a Highlight the process of collection of data.

OR

- b. Categorise the methods of tabulation.
- 13 a Discover the measures of central Tendency.

OR

- b Discuss about quartile deviation. Add a note on its merits and demerits.
- 14 a Write essay on students 't' test.

OR

- b. Describe the Chi square test.
- 15 a. Discuss the regression equation.

OR.

b Summarise the Vital statistics.

Z-Z-Z

END