PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2022
(Third Semester)

Branch – **BOTANY**

BIO-STATISTICS

Time: Three Hours Maximum: 75 Marks

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

1. Define Bio-Statistics.
2. Define Sample
3. Define Tabulation.
4. What is classification?
5. Define Mode.
6. Find the median. 30, 5, 21, 42, 13, 10, 27, 33, 17, 8
7. Define standard deviation.
8. What is quartile deviation?
9. What is Correlation?
10. What are the regression equations?.

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

11 a Explain the measurement of biological data.

OR

b Explain the collection of sources of secondary data.

12 a Explain the Classification of data.

OR

b Draw a Pie- Chart For the following data.

Area works experience	No. of Students
Photography	6
Clay Modelling	30
Kitchen	48
Doll Working	12
Book Binding	24

13 a State the merits and demerits of mode.

OR

b From the following data find out the value of median.

x	1580	1600	1650	1680	1700	1750
f	24	26	16	20	6	30

14 a The following are the blood volume (in c.c) of cows in volved in multiple fractures.
Calculate range and coefficient of range.
3300, 2900, 1800, 3800, 3325, 3000

OR

Cont...

b Compute the mean deviation from the mean. For the following data.

x	10	11	12	13	14
f	3	12	18	12	3

15 a Explain the difference between correlation and regression

OR

b Obtain the regression equation of x on y from the following data

x	8	11	7	10	12	5	4	6
y	11	30	25	44	38	25	20	27

SECTION - C (30 Marks)

Answer any **THREE** Questions

ALL Questions Carry **EQUAL** Marks (3 x 10 = 30)

16 Explain the collection of primary data.

17 Draw the Histogram, frequency polygon and frequency curve

Class Intervals	0-100	100-200	200-300	300-400	400-500
Frequency	12	18	27	30	17

18 Calculate the mean, median and mode for the following data.

Class Intervals	69.5-74.5	74.5-79.5	79.5-84.5	84.5-89.5	89.5-94.5	94.5-99.5	99.5-104.5
Frequency	40	45	50	60	70	80	100

19 Compute the correlation coefficient for the following data.

x: 65 66 67 67 68 69 70 72
y: 67 68 65 68 72 72 69 71

20 The weekly sales of two products A and B were recorded as given:

Product A	59	75	27	63	27	28	56
Product B	150	200	125	310	330	250	225

Find out the which of the two shows greater functions in sales.

Z-Z-Z END