PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2017
(Third Semester)

Branch- **BOTANY**

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. What are the sources of collecting statistical data?
3 Give any two examples for diagrammatic representation.
4 Define a Table.
5 Calculate Median for the following data:
6,4,8,10,12,9,5
6 What is Mode? Give an example.
7 Calculate co-efficient of variation from the following informations:
Mean=50 ; SD=20
8 Write any two methods of measuring dispersion.
9 What is positive Correlation?
10 Write the two regression equations.

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

11 a Write a short note on development of Bio-Statistics.

OR

b Briefly explain the methods of collecting Secondary data.

12 a Explain the various methods of classification.

OR

b Explain the procedure of constructing a frequency table.

13 a Calculate Median for the following data:

Protein intake (g):	**15-25**	**25-35**	**35-45**	**45-55**	**55-65**	**65-75**	**75-85**
No of Families	**30**	**40**	**100**	**110**	**80**	**30**	**10**

OR

b Write the properties of good average.

14 a

X	2	4	6	8	10	12	14	16
Y	2	2	4	5	3	2	1	1

OR

b Calculate the standard deviation of the following distribution:

Age	**20-25**	**25-30**	**30-35**	**35-40**	**40-45**	**45-50**
No. of Patients	**170**	**110**	**80**	**45**	**40**	**35**

Cont...

15 a Calculate

X	**75**	**88**	**95**	**70**	**60**	**80**	**81**	**50**
Y	**120**	**134**	**150**	**115**	**110**	**140**	**142**	**100**

OR

b Differentiate between Correlation and Regression.

SECTION - C (30 Marks)

Answer any **THREE** Questions
ALL Questions Carry **EQUAL** Marks (3 x 1 0 = 30)

16 Explain the various methods of Collecting primary data.

17 Draw Ogives and find Median from the following distribution:

C.I	**10-20**	**20-30**	**30-40**	**40-50**	**50-60**	**60-70**
F	**4**	**6**	**10**	**20**	**18**	**2**

18 Calculate Mean and Mode for the following data:

Weight (kg)	**15-25**	**25-35**	**35-45**	**45-55**	**55-65**	**65-75**	**75-85**
No. of Patients	**10**	**12**	**15**	**20**	**14**	**8**	**1**

19 The Hemoglobin level of 2 Childrens in a certain period are as follows:

Children-I	**10**	**8**	**14**	**12**	**11**	**12**	**13**
Children-II	**9**	**11**	**16**	**14**	**12**	**12**	**15**

Find which children is having more stable Haemoglobin level.

20 Find the Correlation co-efficient between Gestational Age(weeks) and Crown-Heel length(cm) of 8 babies.

GA(Weeks)	**34**	**30**	**32**	**28**	**35**	**37**	**40**	**29**
CHL(cm)	**46**	**47**	**46**	**48**	**45**	**49**	**50**	**44**

Z-Z-Z END