



GAE-421

Seat No. _____

B. Sc. (Sem. III) Examination

November/December – 2015

EC : Biotechnology

(Biostatistics)

Time : 2 Hours]

[Total Marks : 50

- 1 Very short answers: (any five). 5
1. The part of population on which the study is performed is known as
a) Data b) sample c) both of these d) none of these
 2. Classification is the process of _____ the data.
a) Analyzing b) arrangement c) defining
 3. Which of the following is the central tendency
a) Mean b) median c) mode d) dispersion.
 4. Give the full form of ANOVA.
 5. What is dispersion?
- 2 Answer the question : (any five) 25
- 1) What is sample? Write about the importance of sampling.
 - 2) Define mode. Give merits and demerits of mode.
 - 3) What do you mean by dispersion? Discuss different measures of dispersion with formula.
 - 4) Write short note on probability.
 - 5) Discuss various ways of classifying the data.

- 6) What is the use of chi-square test? Enlist the steps involved in its computation.

3 Answer the following long questions: (Any two) 20

1. Define biostatistics and write in detail about the scope of biostatistics.
2. Calculate the mean, median and mode of the following data :

Class Interval	0-100	100-200	200-300	300-400	400-500	500-600	600-700
Frequency	15	20	28	32	18	12	5

3. What is analysis of variance and the significance of its study ? explain the meaning of F-coefficient in this study.
4. Calculate standard deviation of the following data :

X	18	19	20	21	22	23	24	25	26	27
F	3	7	11	14	18	17	13	8	5	4