

FACULTY OF SCIENCE

Code No. 7080

B.Sc. (CBCS) III – Semester Examination, November / December 2017

Subject : BIO-TECHNOLOGY

Paper – III

Biochemistry and Biostatistics

Time : 3 hours

Part – A (5 X 4 = 20 Marks)
(Short Answer Type)

Max. Marks : 80

Answer any Five of the following questions.

- 1 Enzyme Inhibition
- 2 Peptide Bond
- 3 Oxidative deamination
- 4 Beer Lambert's Law
- 5 Diagrammatic representation of data
- 6 Variance and standard deviation
- 7 Probability
- 8 Linear Regression Analysis

Part – B (4 X 15 = 60 Marks)
(Essay Answer Type)

Answer ALL questions from the following :

9 a) Explain Michaelis-Menton equation in detail.

OR

b) Describe in detail the structure and functions of different polysachharides.

10 a) Write a note on Tricarboxylic Acid (TCA) cycle.

OR

b) Write the principle and applications of preparative and analytical centrifugation.

11 a) Describe in detail the methods of sampling.

OR

b) Explain "MEDIAN" as a measure of central tendency, list out the merits and demerits and calculate median from the data given

x	16-20	21-25	26-30	31-35	36-40	41-45	46-50
f	4	7	9	4	3	3	2

12 a) Discuss in detail one-way ANOVA and their applications to biology.

OR

b) What is correlation coefficient. Calculate correlation coefficient between the given two variables, test the significance and interpret your results.

x	65	66	67	68	67	69	70	64	65	63
y	67	65	68	70	65	68	72	66	62	68
