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Code No. 8085

**FACULTY OF SCIENCE**

B.Sc. III-Semester (CBCS) Examination, November / December 2019

Subject: Bio-Technology (Biochemistry and Biostatistics)

Paper – III (DSC)

Time: 3 Hours

Max.Marks: 80

**PART – A (5x4 = 20 Marks)**

[Short Answer Type]

Note: 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 (4x15 = 60 Marks)**

[Essay Answer Type]

Note: Answer all from the following questions.

- 9 a) Explain Michaelis-Menton Equation in detail.  
OR  
b) Explain in detail the structure and functions of polysaccharides.
- 10 a) Write a note on Tricarboxylic acid (TCA) cycle.  
OR  
b) Write a note on the principle and applications of centrifugation.
- 11 a) Describe in detail the methods of sampling.  
OR  
b) Explain "Median" as a measure of central tendency and list out merits and demerits.
- 12 a) Explain in detail one-way ANOVA and their applications to biology  
OR  
b) Write in detail on Test of Significance.

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