

1209-14-488-009

Code No. 2053

FACULTY OF SCIENCE

B. Sc. II-Year Examination, March / April 2016

Subject: Bio-Technology (General)

Paper – II: Biological Chemistry and Microbiology

Time : 3 Hours

Max. Marks:100

Note: Answer ALL questions. All questions carry equal marks.

- 1 (a) Write an essay on classification, structure and properties of amino acids.
OR
(b) Explain the classification and nomenclature of enzymes.
- 2 (a) Describe the catabolism of amino acids phenylalanine and tyrosine.
OR
(b) Explain the citric acid cycle.
- 3 (a) Describe the general characters and the structure of Bacteria.
OR
(b) Explain various methods of sterilization.
- 4 (a) What are the principles and applications of microscopy?
OR
(b) Explain the principles and application of radio isotopes.
- 5 Write short notes on any **three** of the following:
 - (a) Lambert's Law
 - (b) Thin Layer chromatography
 - (c) Structure of Fructose
 - (d) HIV
 - (e) Photophosphorylation
