

15063

M.Sc. DEGREE EXAMINATION, OCTOBER/NOVEMBER 2015.

FIRST SEMESTER

Microbiology

Paper III — BIOLOGICAL CHEMISTRY

Time : Three hours

Maximum : 75 marks

(No additional sheet will be supplied)

PART A — (5 × 3 = 15 marks)

Answer any FIVE questions.

Each question carries 3 marks.

Each answer should not exceed 1 page.

1. Lipoproteins
2. Saponification
3. Essential amino acids
4. Cot value
5. Line weaver-Burk plot
6. Isozymes
7. Proton translocation
8. Chemiosmotic theory

PART B — (4 × 15 = 60 marks)

Answer ALL questions.

Each question carries 15 marks.

Each answer should not exceed 6 pages.

9. Mention the significance of polysaccharides.
Or
10. Write an account on classification of phospholipids.
11. Discuss about the structural organization of proteins.
Or
12. Describe different types of nucleic acids.

13. Define K_M value and add a note on Michaelis–Menten Equation.

Or

14. Discuss the mechanism of action of chymotrypsin.

15. Mention the electron carriers in bacteria.

Or

16. Write an account on biological energy transducers.

