

15063

M.Sc. DEGREE EXAMINATION, OCTOBER/NOVEMBER 2019.

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. Iodine number
2. Classification of carbohydrates
3. Acid base properties of peptides
4. Cot Curves
5. RNase
6. Abzymes
7. Enthalpy
8. Chemi-osmotic theory

PART B — (4 × 15 = 60 marks)

Answer ALL questions.

Each question carries 15 marks.

Each answer should not exceed 6 pages.

9. Discuss about structure, occurrence and biological significance of polysaccharides.

Or

10. Write a detailed on lipo proteins in bacteria.

11. Discuss about peptide and protein sequencing.

Or

12. Narrate an elaborate account on structure, properties and function of nucleotides.

13. Give a detailed account on "Enzyme Kinetics".

Or

14. Write an essay on regulatory enzymes.

15. Write a comparative account on electron carriers in bacteria and mitochondria.

Or

16. Give a concise account on "photorespiration and bioluminescence".

