

15103

M.Sc. DEGREE EXAMINATION, NOVEMBER 2017.

FIRST SEMESTER

Zoology

Paper III — CELL BIOLOGY AND MICROBIOLOGY

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. Golgi complex
2. Cell cycle
3. Cyclic AMP
4. Raf and MAP kinases
5. AIDS
6. Protozoan diseases
7. Microorganisms as source of food
8. Antibiotics.

PART B — (4 × 15 = 60 marks)

Answer ALL questions.

Each questions carries 15 marks.

Each answer should not exceed 6 pages.

9. Describe briefly about the Ultra structural details and functions of cell membrane.

Or

10. Describe the events associated with Meiosis with suitable illustrations.

11. Write briefly about the pathways of Intracellular signal transmission.

Or

12. Write about the Models of Cell-Cell signalling with suitable examples.

13. Write briefly about the Bacterial diseases and their controlling measures.

Or

14. Write about the different types of Microbial nutrition patterns.

15. Narrate the process associated with Industrial production of Lactic acid.

Or

16. Describe the role of Industrial enzymes in the production of commercial products.

