



MICROBIOLOGY – I
(Revised Scheme – 2)
Q.P. CODE: 9812

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary.

Section A and section B are to be written in same Answer Book

Section A - Clinical Microbiology [50 marks]

LONG ESSAY

1 X 20 = 20 Marks

1. Explain in detail about pathogenesis and laboratory diagnosis of Poliomyelitis. Add a note on its prophylaxis.

SHORT ESSAY (Attempt any six)

6 X 5 = 30 Marks

2. Bacterial cellwall
3. Sterilization by autoclave
4. Laboratory diagnosis of Cholera
5. Laboratory diagnosis of E. histolytica infection
6. Standard test for Syphilis (STS)
7. Laboratory diagnosis of Dermatophytosis
8. Biomedical waste management
9. Life cycle of Ascaris lumbricoides

Section B – Immunology and Molecular Biology [50 marks]

LONG ESSAY

1 X 20 = 20 Marks

10. Define and classify hypersensitivity. Give a detailed account of Type I hypersensitivity.

SHORT ESSAY (Attempt any six)

6 X 5 = 30 Marks

11. Mechanism of innate immunity
12. Alternate complement pathway
13. Enzyme Linked Immunosorbent Assay (ELISA)
14. Structure of immunoglobulins
15. Immunization schedule used in India
16. Natural Killer Cells
17. Gene therapy
18. Structure of DNA molecule

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