



[Time: 3 Hours]

[Max. Marks: 100]

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. Name the different Spirochaetes and diseases caused by them. Describe the laboratory diagnosis of Syphilis.

SHORT ESSAY (Attempt any six)

6 X 5 = 30 Marks

2. Life cycle of Plasmodium falciparum
3. Bacteriology of water
4. Laboratory diagnosis of Typhoid fever
5. Clinical manifestations and lab diagnosis of Candidiasis
6. Bacterial spore
7. Modes of transmission of hospital acquired infections
8. Pathogenesis of Wuchereria bancrofti
9. Prophylaxis of Polio. Add a note on pulse polio program.

Section B – Immunology and Molecular Biology [50 marks]

LONG ESSAY

1 X 20 = 20 Marks

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

SHORT ESSAY (Attempt any six)

6 X 5 = 30 Marks

11. ELISA
12. Immunization schedule
13. Flow cytometry
14. Types and function of T – cells
15. Alternate complement pathway
16. IgA Antibody – structure, properties and function
17. Mechanism of auto immunity
18. Gene therapy

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