



[Time: 3 Hours]

[Max. Marks: 100]

MICROBIOLOGY - I

Q.P. CODE : 9672

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. Define and classify sterilization with examples. Explain in detail the working principle, articles sterilized and sterilization controls of an autoclave

SHORT ESSAY

5 X 6 = 30 Marks

2. Laboratory diagnosis of gas gangrene
3. Diffusion methods of antibiotic sensitivity testing.
4. Laboratory diagnosis of dermatophytes
5. Life cycle of plasmodium falciparum.
6. Laboratory diagnosis of leptospirosis.

Section B – Immunology and Molecular Biology [50 marks]

LONG ESSAY

1 X 20 = 20 Marks

7. Classify immunoglobulins. Describe the structure of an immunoglobulin. Add a note on functional properties of immunoglobulins

SHORT ESSAY

5 X 6 = 30 Marks

8. Monoclonal antibodies
9. RFLP technique
10. Types of RNA and their functions
11. Alternate complement pathway.
12. Memory cells

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