



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. Describe the morphology, cultural characteristics, pathogenicity, clinical manifestation and lab diagnosis of *Streptococcus pyogenes*

SHORT ESSAY (Attempt any six)

6 X 5 = 30 Marks

2. Contributions of Robert Koch
3. Modes of transmission of hospital acquired infections
4. Lab diagnosis of cholera
5. Specific tests for syphilis
6. Pathogenicity of human immunodeficiency virus
7. Pathogenicity and lab diagnosis of Herpes Zoster virus
8. Lab diagnosis of candidiasis
9. Clinical manifestations and lab diagnosis of *Histoplasma capsulatum*

Section B – Immunology and Molecular Biology [50 marks]

LONG ESSAY

1 X 20 = 20 Marks

10. Define complement system. Give a detailed account on the activation of classical complement pathway. Add a note on the biological significance of the complement system.

SHORT ESSAY (Attempt any six)

6 X 5 = 30 Marks

11. Anaphylaxis
12. Properties of an antigen
13. Development of T cell
14. Describe the structure and function of IgM.
15. Immunoelectrophoresis
16. Mechanism of auto immunity
17. Flow cytometry
18. Structure of DNA

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