



[Time: 3 Hours]

[Max. Marks: 100]

BIOCHEMISTRY - I

Q.P. CODE : 9671

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 Biochemistry [50 marks]

LONG ESSAY

1 X 20 = 20 Marks

1. Discuss the classification of amino acids in detail, with suitable examples. Add a note on properties of amino acids.

SHORT ESSAY

5 X 6 = 30 Marks

2. Write a short note on 'Polysaccharides'.
3. Explain the significance of lipids in our system.
4. Discuss the different factors affecting the enzyme activity.
5. Write the clinical significance of cerebrospinal fluid (CSF) analysis.
6. Explain the clearance test for kidney function with an example.

Section B - Biomedical Techniques & Lab. Management [50 marks]

LONG ESSAY

1 X 20 = 20 Marks

7. Discuss the various aspects of laboratory designing in detail. Add a note on total Quality management in a laboratory.

SHORT ESSAY

5 X 6 = 30 Marks

8. Write a note on hazardous waste in the clinical laboratory and its management
9. What are ion selective electrodes? Write their applications in the field of medicine.
10. Explain the principle and applications of ultra centrifugation.
11. Write the components of electron transport chain in order. And add a note inhibitors.
12. Discuss in brief the principle and applications of ion exchange chromatography.

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