



BIOCHEMISTRY – I
(Revised Scheme – 2)
Q.P. CODE: 9811

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

2 X 10 = 20 Marks

1. Patient management during specimen collection. Discuss preservation, transport, storage and disposal.
2. Give an account of the nutritional importance of carbohydrates, lipids and proteins.

SHORT ESSAY

5 X 6 = 30 Marks

3. Laboratory evaluation of paraproteinemia
4. Write a short note on Radioactive isotopes.
5. ACTH stimulation test
6. Regulation of pH in the body fluids
7. Determination of protein structure

Section B – Laboratory Principles & Techniques [50 marks]

LONG ESSAY

2 X 10 = 20 Marks

8. Mention the types of Chromatography. Briefly explain Ion-Exchange Chromatography. Mention their applications.
9. Classify centrifugation techniques. Discuss cell fractionation.

SHORT ESSAY

5 X 6 = 30 Marks

10. Atomic absorption spectrophotometry
11. L. J. Charts
12. Discuss functional components of clinical laboratory.
13. Explain in detail Polyacrylamide gel electrophoresis.
14. Principles and applications of Osmometry

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