

Rajiv Gandhi University of Health Sciences

First Year M.Sc. (MLT) Degree Examination - SEP-2019

[Time: 3 Hours]

[Max. Marks: 100]

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

1 X 20 = 20 Marks

1. Discuss the structural organization of proteins. Explain the determination of primary structure.

SHORT ESSAY (Attempt any six)

6 X 5 = 30 Marks

2. Applications of radioactive isotopes
3. Acquisition of body fluids in a laboratory and criteria for their rejection
4. Nutritional importance of carbohydrates and lipids
5. Use, care and maintenance of glucometers
6. Creatinine clearance test
7. Biochemical analysis of CSF
8. Diagnostic importance of enzymes
9. Oral glucose tolerance test

Section B – Laboratory Principles & Techniques [50 marks]

LONG ESSAY

1 X 20 = 20 Marks

10. Discuss the various aspects of clinical laboratory designing in detail. Write about total quality management in a laboratory.

SHORT ESSAY (Attempt any six)

6 X 5 = 30 Marks

11. Training of technical staff in a laboratory
12. Principle and applications of osmometry
13. Quality control charts
14. Different types of glasswares and their cleaning
15. Safety regulations for disposal of chemical and biohazardous wastes
16. Write the principle, procedure and applications of thin layer chromatography of amino acids.
17. Cell fractionation
18. Note on pH meter

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