

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. (MLT) Degree Examination - 15-May-2025

Time: Three Hours

Max. Marks: 80

BIOCHEMISTRY – PAPER III (RS-3)

Q.P. CODE: 3159

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAY (Any Two)

2 x 10 = 20 Marks

1. Explain the pathway of Beta oxidation of Palmitic acid. Add a note in its energetics and significance
2. Define Principle of electrophoresis and discuss the procedure of serum protein electrophoresis by Agarose gel electrophoresis method and its clinical significance
3. Give an account of nutritional importance of Proteins and lipids

SHORT ESSAY (Any Six)

6 x 5 = 30 Marks

4. Add a note on different types of automation in clinical laboratory
5. Isoenzymes and their clinical significance
6. Explain Visual cycle
7. Fredericksons's classification of hyper lipoproteinemias
8. Role of Blood buffers in regulation of blood pH
9. Write the principle, types and applications of ELISA
10. Discuss in detail various Thyroid Function Tests
11. Levey-Jennings' control chart and Westgard rules

SHORT ANSWERS (Any Ten)

10 x 3 = 30 Marks

12. Disorders of Fructose metabolism
13. Point mutation
14. Haemolytic Jaundice
15. Cardiac Troponins
16. Prostate specific antigen
17. Kwashiorkor
18. Write the normal values of Amylase, Lipase, CK-MB
19. Van-den Bergh test
20. Hypocalcemia
21. Composition of Renal stones
22. Detoxification by conjugation
23. Write the significance of HMP pathway
