Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. (MLT) Degree Examination - 27-Oct-2026

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. Describe the various mechanism of regulation of blood pH
2. Describe the process of replication. What is semiconservative replication
3. Write the sources, RDA and functions of vitamin A. Describe Wald's Visual cycle

SHORT ESSAY (Any Six) **6 x 5 = 30 Marks**

4. Significance of HMP shunt pathway
5. Enzyme markers in diagnosis of Myocardial Infarction
6. Classify lipoproteins based in the separation and electrophoretic mobility. Add a note in LDL metabolism
7. Ion Selective electrodes (ISE)
8. Importance of Dietary fibers in nutrition
9. Write the sources, Absorption, Transport and storage of iron
10. What is Jaundice. Classify Jaundice and add a note on differential diagnosis
11. Name the different types of Plasma proteins and their functions

SHORT ANWERS (Any Ten) **10 x 3 = 30 Marks**

12. Functions of Chloride
13. Principle of Radio Immune Assay (RIA)
14. Alpha fetoprotein
15. Write the composition of pancreatic juice
16. Pre analytical and analytical variables in quality control
17. Detoxification of benzoic acid
18. Cardiac troponin
19. Basal Metabolic Rate
20. Composition of Renal stones
21. Lipid profile
22. Define mean, standard deviation and co-efficient of variation
23. Write the causes of acidosis

*****