

# Rajiv Gandhi University of Health Sciences, Karnataka

**III Year B.Sc. (MLT) Degree Examination - 27-Oct-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. Discuss the formulation and fate of bilirubin in the body
2. Define quality control. Add a note on internal quality control programme, L.J chart, Westguard's rule
3. Write the sources, RDA, absorption and biochemical functions of calcium

### **SHORT ESSAY (Any Six)**

**6 x 5 = 30 Marks**

4. Protein energy malnutrition (PEM)
5. Atomic absorption Spectrophotometry
6. Cardiac markers
7. Post Transcriptional and Post translational modifications
8. Write the sources, RDA and functions of vitamin D
9. Acute phase proteins and their importance
10. Acidosis
11. Name the different ketone bodies. Add a note on metabolism of ketone bodies

### **SHORT ANSWERS (Any Ten)**

**10 x 3 = 30 Marks**

12. Tumor suppressor genes
13. Normal levels of serum electrolytes
14. Diagnostic significance of pancreatic enzymes
15. Define recommended dietary allowance (RDA)
16. Functions of vitamin K
17. Describe in detail POCT devices with example
18. Write the procedure of arterial blood collection
19. Name the Hormones assessed in thyroid disorders with their normal levels
20. Physical examination of Renal calculi
21. Isoenzymes of LDH
22. CA-125
23. Name the enzyme defect in Galactosemia, Hereditary fructose intolerance, fructosuria

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