

**Rajiv Gandhi University of Health Sciences, Karnataka**  
**Second Year B.Sc. (M.L.T) Degree Examination – 23-Dec-2022**

**Time: Three Hours**

**Max. Marks: 100 Marks**

**BIOCHEMISTRY – II (RS-4)**

**Q.P. CODE: 3279**

Your answers should be specific to the questions asked.  
Draw neat labeled diagrams wherever necessary

**LONG ESSAYS (Second Question Choice)**

**2 x 10 = 20 Marks**

1. Describe the principle, operation, application and maintenance of Spectrophotometry
  2. What are enzymes? Classify enzymes with one example each and add a note on factors affecting Enzyme activity
- OR**
- Briefly explain the structural organization of Proteins

**SHORT ESSAYS (Question No 5 & 10 choice)**

**10 x 5 = 50 Marks**

3. Laboratory safety measures
  4. Briefly explain the different types of flasks and its uses
  5. Define normality, equivalent weight and molarity of compound with example
- OR**
- Explain the properties of Amino acids
6. Precipitation reaction of protein
  7. What are Ketone bodies? Add a note on Ketosis
  8. Briefly explain the venous blood collection Techniques
  9. Explain the abnormal constituents of Urine and add a note on its chemical analysis
  10. Diabetes mellitus, its diagnosis and management
- OR**
- Describe types, components and working of centrifuge
11. Principles and applications of paper chromatography
  12. Principle and components of p<sup>H</sup> meter

**SHORT ANSWER**

**10 x 3 = 30 Marks**

13. Types of Pipettes
14. Deep Freezers
15. What are Derived units?
16. Reducing sugar
17. Biological importance of Glycosides
18. Therapeutic role of Enzyme
19. Anticoagulants used in blood collection techniques
20. Electrophoresis
21. Glycated HbA1c
22. Supersaturated solution.

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