

Rajiv Gandhi University of Health Sciences, Karnataka
Second Year B.Sc. (M.L.T) Degree Examination – 23-May-2025

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. Mention the normal and abnormal constituents of urine. Write in detail about examination of abnormal constituents of Urine.
 2. Write the principle, procedure and applications of paper chromatography.
- OR**
- Explain principle, instrumentation and applications of spectrophotometry. Add a note on standardization of spectrophotometer.

SHORT ESSAYS (Question No 5 & 10 choice)

10 x 5 = 50 Marks

3. Write the principle, instrumentation and applications of Turbidometry.
 4. Describe the working of p^H meter.
 5. Write the types of weighting balances. Add a note double pan balance.
- OR**
- Principle, instrumentation and applications of Glucometer.
6. Explain with example Competitive inhibition.
 7. Different types of flasks used in laboratory and its uses.
 8. Write in detail about the types, symptom, management and diagnosis of Diabetes Mellitus.
 9. Urea cycle and disorders.
 10. Define normality give the formula to calculate the normality of concentrated sulphuric acid. How to prepare 100ml of 1N sulphuric acid.
- OR**
- Saturated and supersaturated solutions.
11. Synthesis of creatinine and its significance.
 12. Give a brief account of Mucopolysaccharides.

SHORT ANSWER

10 x 3 = 30 Marks

13. Preparation of protein free filtrate.
14. Benedict's test.
15. Describe various anticoagulants used in blood sample collection.
16. What are the functions of protein?
17. Define a) Tripod stand b) Cuvette c) Folin-Wu
18. Quaternary structure of proteins.
19. Epimers.
20. Refrigerators.
21. Definition and classification of SI units.
22. Ketosis.