

Rajiv Gandhi University of Health Sciences, Karnataka
Second Year B.Sc. (M.L.T) Degree Examination – 23-Nov-2023

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. Explain the principle of centrifugation and discuss different types of centrifuges. Add a note on the maintenance of Centrifuge
 2. Explain the structural classification of protein and its function
- OR**
- Describe the steps of Urea Cycle and its disorder. Add a note on BUN

SHORT ESSAYS (Question No 5 & 10 choice)

10 x 5 = 50 Marks

3. What is molarity and explain how to prepare IM NaoH
 4. Explain the properties and biomedical importance of Sucrose
 5. Explain the Arterial blood collection Technique
- OR**
- Briefly explain the cleaning of glass ware and plastic ware
6. Describe the working principle of Colorimeter and limitations of Beer-Lambert's Law
 7. Diabetes mellitus, diagnosis and management.
 8. Chemical Examination of Urine
 9. Briefly explain the Principle, Instrumentation and applications of Glucometer
 10. What are enzymes? Add a note on Enzyme inhibition
- OR**
- Principles and procedure for Agarose Gel Electrophoresis
11. Preparation of protein free filtrate for quantitative analysis
 12. Briefly explain the principle, care, maintenance and applications of Hot air oven

SHORT ANSWER

10 x 3 = 30 Marks

13. Folin Wu tube
14. Cold Box
15. Dessicator
16. Percent Solutions
17. Biological importance of peptide bond
18. Isoelectric P^H of amino acids.
19. Coenzymes
20. Rothera's test
21. Oral Glucose Tolerance Test
22. Turbidimetry
