Rajiv Gandhi University of Health Sciences, Karnataka

Second Year B.Sc. (M.L.T) Degree Examination – 29-May-2024

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. Name the various types of enzyme inhibitions and explain them with examples.
2. Define the electrophoresis and discuss the procedure of serum protein electrophoresis. Add a note on applications of Electrophoresis.

   OR

   Write the type of weighing balances. Add a note on Electronic balance. Write down the precautionary measures taken while handling the balances.

SHORT ESSAYS (Question No 5 & 10 choice) **10 x 5 = 50 Marks**

3. Different types of pipettes and their uses.
4. List the different types of centrifuges. Add a note on the components and the working of a centrifuge.
5. Write the principle, components and working of colorimeter.

   OR

   Describe oral glucose tolerance test and glycosuria.
6. Hot air oven principle, components and uses.
7. Ketogenesis.
8. Significance of blood urea and serum creatine estimation.
9. Write in detail about factors affecting Enzyme activity.
10. Describe in detail about venous blood collection.

    OR

    Preparation of protein free filtrate.
11. Explain primary and secondary structure of proteins.
12. Explain stereoisomerism, optical activity, mutarotation and epimers.

SHORT ANSWER **10 x 3 = 30 Marks**

13. Alucometer.
14. Ninhydrin test.
15. Define molarity, valency with one example each.
16. Discuss the therapeutic role of enzymes.
17. Give the normal values of fasting, postprandial and random blood sugar levels.
18. Denaturation of proteins.
19. Urine preservatives.
20. Desiccators and its uses.
21. Define stock and working solutions.
22. Biomedical importance of amino sugars and glycosides.

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