



Rajiv Gandhi University of Health Sciences, Karnataka
Second Year B.Sc. Medical Laboratory Technology Degree Examination – 17-May-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. What are enzymes? Explain the factors affecting the role of enzyme catalyzed reactions. Add a note on enzyme specificity
2. What is GTT? Give detailed account of the instructions to be given to the patient and specimen collection at the lab while carrying out oral GTT. Discuss the laboratory analysis and interpretation of the results

OR

Write in detail about the examination of abnormal constituents of urine

SHORT ESSAYS (Question No 5 & 10 choice)

10 x 5 = 50 Marks

3. Paper chromatography
4. Urea cycle
5. Isomerisation of monosaccharides
6. Venous blood collection
7. Creatinine clearance
8. Hot air oven
9. Different types of flasks used in laboratory and its uses
10. Write about the working of spectrophotometer

OR

Principle and components of pH meter

11. Analytical and therapeutic role of enzymes
12. Write in detail about peptides and their functions

SHORT ANSWER

10 x 3 = 30 Marks

13. Preservatives used for urine sample
14. Rothera's test
15. Difference between starch and glycogen
16. Epimers
17. Write a note on Ketosis
18. Isoelectric pH
19. Mention any three functions of proteins
20. Write down the principle of nephelometry
21. Give the biochemical importance of amino sugars and glycosides
22. HbA_{1c} reference range and significance
