

Rajiv Gandhi University of Health Sciences, Karnataka
II Year B.Sc. (MLT) Degree Examination - 29-May-2024

Time: Three Hours

Max. Marks: 80

BIOCHEMISTRY – PAPER II (RS3)

Q.P. CODE: 3156

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAY (Any Two)

2 x 10 = 20 Marks

1. Define Coenzymes. Explain the factors affecting enzyme activity
2. Explain urea cycle. Add a note on disorders of urea cycle
3. Explain principle and instrumentation of paper chromatography. Add a note on applications of paper chromatography

SHORT ESSAY (Any Six)

6 x 5 = 30 Marks

4. Oral glucose tolerance test
5. Explain creatinine clearance test
6. Explain the biochemical reactions of tyrosine degradation
7. Explain competitive and non competitive enzyme inhibition
8. Nutritional classification of proteins
9. Mucopolysaccharides – composition and functions
10. Explain digestion of carbohydrates
11. Glycogen storage disorders

SHORT ANSWERS (Any Ten)

10 x 3 = 30 Marks

12. Describe the principle of reflectance photometry
13. Analysis of cerebrospinal fluid
14. Biomedical importance of amino sugars
15. Tertiary structure of proteins
16. Define Enzyme specificity. Write any one specificity
17. Glucometers
18. Disorders of uric acid synthesis
19. Energetics of Tricarboxylic acid (TCA) cycle
20. Different forms of DNA
21. Describe the applications of Osmometry
22. Percent solutions
23. Describe the biochemical functions of thiamine
