

Rajiv Gandhi University of Health Sciences, Karnataka
I Year Pharm-D Examination - 03-May-2025

Time: Three Hours

Max. Marks: 70

MEDICINAL BIOCHEMISTRY (RS & RS-2)

Q.P. CODE: 2853

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

1. Explain the reaction sequence of TCA cycle. Note on its energetics and significance
2. Define enzyme inhibition. Discuss the various types of enzyme inhibition with examples
3. Describe in detail the semiconservative mode of DNA replication

SHORT ESSAYS (Answer any Six)

6 x 5 = 30 Marks

4. Describe the components of electron transport chain
5. Write the coenzyme form, biochemical role and deficiency of Riboflavin
6. Explain the formation of ketone bodies and their importance in the body
7. List out the components of fatty acid synthase complex and explain its functional units
8. Explain the steps of glycogenesis. Note on its regulation
9. Outline the reactions of HMP pathway. Give its significance
10. Describe the transamination reactions in catabolism of amino acids
11. Explain the dye test for excretory function of liver

SHORT ANSWERS

10 x 2 = 20 Marks

12. What is creatinine clearance test?
13. Give the therapeutic uses of any two enzymes
14. What is the role of cholesterol in the body?
15. Write the structure and significance of cyclic AMP
16. What is carnitine transporter?
17. What is the significance of lipid profiling?
18. Write the composition of ORS
19. What is ELISA? Give its significance
20. Write the energetics of glycolysis
21. What is gout? Give its clinical manifestations
