

Rajiv Gandhi University of Health Sciences, Karnataka
I Year Pharm-D Examination - 28-Oct-2024

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. Define enzyme inhibition and discuss the various types of enzyme inhibition
2. Describe the biochemical pathway of glycolysis with a note on its energetics
3. Explain the de novo synthesis of fatty acid palmitate starting from acetyl CoA

SHORT ESSAYS (Answer any Six)

6 x 5 = 30 Marks

4. Outline the reactions in HMP shunt pathway and note on its significance
5. Write the composition and functions of lipoproteins
6. Write the biochemical role and deficiency of Niacin and Folic acid
7. Describe the hormonal regulation of blood glucose level in the body
8. Explain the chemiosmotic theory of oxidative phosphorylation
9. Describe the reactions of urea cycle
10. Describe the types of RNA and write their biochemical role
11. Write the principle and significance of ALT and AST determination

SHORT ANSWERS

10 x 2 = 20 Marks

12. What is creatinine clearance test? Give its significance
13. What is ketosis? Name the conditions which lead to ketosis
14. What are the common causes of water depletion in the body?
15. Write structure and significance of AMP
16. What are Okazaki fragments?
17. What is Porphyrria?
18. Name the bile salts and give their importance
19. Give the therapeutic uses of any two enzymes
20. What are anaplerotic reactions?
21. What is diabetes mellitus? Mention its types
