

Rajiv Gandhi University of Health Sciences, Karnataka

I Year Pharm-D Examination - 11-Jun-2024

Time: Three Hours

Max. Marks: 70 Marks

MEDICINAL BIOCHEMISTRY (RS & RS2)

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 glycolysis. Describe the biochemical pathway for the breakdown of glucose to pyruvate and lactate. Write about the energetics.
2. Explain in detail the semiconservative mode of DNA replication.
3. Define an enzyme? Outline the IUB classification of enzymes with examples. Explain the mechanism of enzyme action.

SHORT ESSAYS (Answer any Six)

6 x 5 = 30 Marks

4. Discuss the biochemical role of coenzyme forms of vitamin B₁ and folic acid.
5. Describe briefly the synthesis of bile acids. Add a note on enterohepatic circulation of bile salts.
6. Describe the components of ETC
7. Describe the reactions of urea cycle.
8. Explain the tests for hepatic dysfunction.
9. Describe lipid profile tests.
10. Discuss the glucose tolerance test with its significance.
11. What is ELISA? Give its principle and applications.

SHORT ANSWERS

10 x 2 = 20 Marks

12. Write the structure and significance of ATP.
13. Define Km and write its significance.
14. Ketolysis and ketogenesis.
15. What are anaplerotic reactions?
16. What is the role of citrate in fatty acid synthesis?
17. Define nitrogen balance and protein turnover.
18. What are nucleotides? Name four nucleotides.
19. What is creatinine clearance test? Give its significance.
20. What is Phenylketonuria and Alkaptonuria?
21. Name the different fluid compartments in the body.
