

Rajiv Gandhi University of Health Sciences, Karnataka

I Year Pharm-D Examination - 15-Nov-2021

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. Explain in detail the semiconservative mode of DNA replication.
2. Define gluconeogenesis and explain the reactions involved in it with its significance.
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. What are coenzymes? Explain the biochemical role and deficiency symptoms of niacin.
5. Explain the β -oxidation of saturated fatty acids. Calculate the ATP generated on complete oxidation of palmitic acid.
6. Explain the chemiosmotic theory of oxidative phosphorylation.
Explain the production of bile pigments.
8. Discuss the tests for NPN constituents.
9. Write a note on HDL and LDL.
10. Discuss the glucose tolerance test with its significance.
11. Describe the reactions of urea cycle.

10 x 2 = 20 Marks

SHORT ANSWERS

12. Write the structure and significance of cyclic AMP
13. What is the amphibolic role of TCA cycle?
14. What is ketolysis? Give its significance.
15. Define V_{max} and write its significance.
16. What is albinism? What are its characteristics?
17. Name two inhibitors of protein synthesis and their site of action.
18. What is dye test for excretory function of liver?
19. What is the significance of lipid profiling?
20. What is ELISA? Give its significance.
21. Define acidosis and alkalosis.
