

Rajiv Gandhi University of Health Sciences, Karnataka

I Year Pharm-D Examination - 07-Nov-2023

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 enzyme? Classify enzyme according to IUB system. Discuss the factors affecting enzyme activity with graphical representation.
2. Explain the reactions involved in the biosynthesis of cholesterol.
3. Describe the oxidative and non-oxidative pathway of HMP shunt with its significance.

SHORT ESSAYS (Answer any Six)

6 x 5 = 30 Marks

4. Describe briefly glucose tolerance test.
5. Explain the reaction involved in fatty acid synthesis.
6. Write a short note on genetic code.
7. Define mutation? Explain the types of mutations with examples.
8. What is liver function test? Explain about SGPT and SGOT.
9. Write a note on transport processes across the biological membrane.
10. Explain the pathway of Glycogenesis.
11. Write a short note on co-enzymes and their biochemical role.

SHORT ANSWERS

10 x 2 = 20 Marks

12. What is RIA and ELISA?
13. Role of carnitine in β -oxidation process of fatty acid.
14. Write the structure of ATP and its significance.
15. Name the essential amino acids.
16. What is Hyperbilirubinemia? Mention the normal value.
17. Inhibitors of ETC.
18. Translation and transcription.
19. HDL and LDL.
20. Pinocytosis and Endocytosis.
21. What are the causes of dehydration? How to overcome it?
