

Rajiv Gandhi University of Health Sciences, Karnataka

I Year Pharm-D Examination - MAY-2018

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. Describe the steps involved in the complete oxidation of glucose to pyruvate under aerobic conditions with energetics.
2. Define enzyme inhibition and discuss the different types of enzyme inhibitions.
3. Explain in detail the semiconservative mode of DNA replication.

SHORT ESSAYS (Answer any Six)

6 x 5 = 30 Marks

4. Explain the reactions of palmitate synthesis, starting from acetyl CoA.
5. Describe the components of ETC
6. Explain the deamination reactions involved in the catabolism of amino acids.
7. Define genetic code and describe its characteristic features.
8. Mention the different kidney function tests. Explain in detail any two.
9. Write a note on HDL and LDL.
10. Explain the tests for hepatic dysfunction.
11. What is ELISA? Give its principle and applications.

SHORT ANSWERS

10 x 2 = 20 Marks

12. What is Line-Weaver Burk plot? Give its significance.
13. Name the enzymes and coenzymes present in pyruvate dehydrogenase (PDH) complex.
14. What is fatty liver? Name the two causes responsible for fatty liver?
15. What is Diabetes mellitus? Mention its types.
16. What is maple syrup urine disease? What are its characteristics?
17. What is RIA? Give its significance.
18. How is the level of chloride determined in the body fluids?
19. Enumerate the purine and pyrimidine bases present in DNA and RNA.
20. What are high energy compounds? Give two examples.
21. What is atherosclerosis?
