

Rajiv Gandhi University of Health Sciences, Karnataka

I Year Pharm-D Examination - DEC-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. Explain the factors affecting enzyme activity. Add a note on the properties of enzymes.
2. Explain in detail about biosynthesis of proteins.
3. Explain the reactions, energetics and significance of TCA cycle.

SHORT ESSAYS (Answer any Six)

6 x 5 = 30 Marks

4. Discuss the glycogen storage diseases.
5. What are ketone bodies? Explain the formation and importance of ketone bodies.
6. Explain the transamination reactions involved in the catabolism of amino acids.
7. Enlist the tests to assess the renal function. Explain the clearance tests for creatinine and urea.
8. Write the composition and functions of lipoproteins.
9. What is radioimmuno assay? Give its principle and applications.
10. Define mutation. Explain various types of the same.
11. Discuss the biochemical role and deficiency symptoms of vitamin B₂ and B₆.

SHORT ANSWERS

10 x 2 = 20 Marks

12. Write the structure and significance of cyclic AMP.
13. What is the use of malate-aspartate shuttle?
14. Give the importance of SGPT and SGOT.
15. What are porphoria?
16. What are leading and lagging strands?
17. What are substrate level phosphorylation and oxidative phosphorylation.
18. Name two inhibitors of ETC and their sites of action.
19. Give examples for bile salt and bile pigments.
20. Name the clinical disorders associated with water depletion and water excess.
21. How the level of calcium is determined in the body fluids?
