

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B. Pharm Degree Examination – JAN-2019

Time: Three Hours

Max. Marks: 70 Marks

APPLIED BIOCHEMISTRY (Revised Scheme 4)

Q.P. CODE: 2633

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 de novo biosynthesis of fatty acids.
2. Explain the general reactions involved in the metabolism of amino acids.
3. Define enzymes. Write the IUB classification of enzymes in detail with examples.

SHORT ESSAYS (Answer any Six)

6 x 5 = 30 Marks

4. Define coenzymes. Discuss the different types of coenzymes.
5. Explain Glucose tolerance test (GTT) and its significance.
6. Define genetic code and give its salient features.
7. Explain any one liver function test and its significance.
8. Explain the chemiosmotic theory of oxidative phosphorylation.
9. Explain the reactions of HMP pathway with its significance.
10. Define vitamins. Give the daily requirement, biochemical functions and deficiency disorders of vitamin A.
11. Explain the different types of RNA.

SHORT ANSWERS

10 x 2 = 20 Marks

12. Define enzyme induction.
13. Write the amphibolic nature of Krebs cycle.
14. Name the essential fatty acids.
15. Give the physiological functions of serotonin.
16. What are the functions of tRNA?
17. Define K_m and write its significance.
18. Write two biochemical functions of folic acid.
19. Write the structure and biochemical functions of cyclic AMP.
20. Name the enzyme which converts phenylalanine to tyrosine.
21. What is glycerol-phosphate shuttle?
