

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Pharm Degree Examination – Sep 2012

Time: Three Hours**Max. Marks: 70 Marks**

APPLIED BIOCHEMISTRY (Revised Scheme 3)

Q.P. CODE: 2609

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. What do you mean by Glycolysis? Elucidate the steps of Glycolysis and give the energetics of one glucose molecule under complete metabolism
2. What are enzymes? Classify them by IUB and explain the enzyme inhibition process
3. Explain the steps of biosynthesis of purine nucleotides

SHORT ESSAYS (Answer any Six)**6 x 5 = 30 Marks**

4. What is transamination and deamination? Explain with examples
5. What is Hyperglycemia? Discuss glucose tolerance test with respect to diabetes mellitus
6. Outline the biosynthetic route of cholesterol
7. Describe the protein biosynthesis in brief
8. What is atherosclerosis? Add a note on liver function test in brief
9. What are co – enzymes? Explain the role of pyridoxal phosphate in biochemical reaction
10. What is ETC? explain the components involved in it
11. What are energy rich compounds? write the structure and biological role of ATP and cyclic AMP

SHORT ANSWERS**10 x 2 = 20 Marks**

12. Define the term replication bubble. Mention its significance
13. List the sulphur containing the amino acids
14. How does the glucagon influence the blood sugar level
15. What is carnitine? What is its role
16. What is the clinical significance of ketogenesis
17. What do you mean by enzyme repression
18. Mutation
19. SGOT and SGPT
20. Genetic code
21. Abnormal constituents of urine
