

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Pharm Degree Examination – Mar 2013

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. Give the Michel menton equation and discuss the various types of enzyme inhibition with examples.
2. Discuss the Biosynthesis of cholesterol in the body and its significance.
3. Explain the reactions involved in TCA cycle and give its energetics.

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

4. Give the applications of enzymes in diagnosis of diseases.
5. Discuss the glucose tolerance test [GTT].
6. Write a note on genetic code.
7. Describe pyridoxal phosphate as a coenzyme.
8. Explain electron transport chain with sites of ATP generation
9. Explain any two, kidney functions test.
10. What is replication of DNA? Explain.
11. Discuss the reactions involved in glycolysis.

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

12. Define atherosclerosis.
13. What is free energy?
14. Name the inhibitors of ETC.
15. What is Apoenzyme and Holoenzyme.
16. Define glycogenesis and glycogenolysis.
17. Define Ketosis and name the ketone bodies.
18. Write the significance of HMP pathway.
19. What are transcription and translation?
20. Name the sulphur containing amino acids with structure.
21. Name the essential fatty acids and their functions.
