

Rajiv Gandhi University of Health Sciences, Karnataka

Second year B.Pharm Degree Examination - August 2010

Time: Three Hours

Max. Marks: 80 Marks

APPLIED BIOCHEMISTRY (RS - 2)

Q.P. CODE: 1959

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. Write the steps involved in HMP pathway? Write its biological significance?
2. Explain the factors affecting enzyme activity.
3. Discuss the β -oxidation of fatty acids. Calculate the amount of energy produced on oxidation of Palmitic acid.

SHORT ESSAYS (Answer any Eight)

8 x 5 = 40 Marks

4. Active and Passive transport processes.
5. Urea formation cycle.
6. Physiological role of vitamin B1.
7. Glucose tolerance test.
8. Ketogenesis.
9. Oxidative phosphorylation.
10. Transamination.
11. Transcription.
12. Kidney function tests.
13. Components of Protein synthesis.

SHORT ANSWERS

10 x 2 = 20 Marks

14. Energy rich compounds.
15. Michaelis menton constant.
16. Coenzymes involved in oxidation-Reduction.
17. Oxidative deamination of amino acids.
18. Purine and pyrimidine bases.
19. Significance of Bilirubin estimation.
20. Principle of cholesterol estimation.
21. Functions of Phospholipids.
22. Conversion of pyruvate to Acetyl CoA.
23. Ribosomes.
