

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Pharm Degree Examination – NOVEMBER 2015

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 are Enzymes? Describe their IUB Classification and nomenclature with examples.
2. Discuss the Biosynthesis of Cholesterol and its significance.
3. Describe Hexose Mono Phosphate Shunt path way and add note on its significance.

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

4. Describe reactions in the Synthesis of Urea.
5. Name different types of R.N.As and discuss their structures.
6. Discuss the synthesis of Glucose from Non-Carbohydrate sources.
7. Define Oxidative phosphorylation, discuss Chemiosmotic hypothesis.
8. Describe the degradation of Heme.
9. Describe Synthesis and Utilization of Ketone bodies.
10. Write any two Liver function tests and their significances.
11. Describe the Mechanism of Enzyme action.

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

12. Jaundice.
13. Co-enzymes.
14. Chargaff's Rule.
15. Conversion of Ribonucleotides to Deoxy ribonucleotides.
16. What is Carnitine? What is its role?
17. What is Feedback inhibition?
18. Inhibitors of Electron transport chain.
19. Abnormal constituents of Urine.
20. What is Transamination and Deamination?
21. What is Creatinine co-efficient? Give Normal values.
