

# Rajiv Gandhi University of Health Sciences, Karnataka

I Year Pharm-D Degree Examination - NOVEMBER 2015

**Time: Three Hours**

**Max. Marks: 70 Marks**

## MEDICINAL BIOCHEMISTRY

**Q.P. CODE: 2853**

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 synthesis and breakdown of glycogen.
2. Explain in detail  $\beta$ -oxidation of fatty acids.
3. Describe the metabolism of pyrimidine nucleotides.

### **SHORT ESSAYS (Answer any Six)**

**6 x 5 = 30 Marks**

4. Write in detail HMP pathway of glucose utilization.
5. What is mutation? Discuss its repair mechanism.
6. Name the important phospholipids and give their physiological role.
7. Write a note on enzyme inhibition.
8. Radioimmunoassay (RIA)
9. Discuss the test to assess the metabolic and detoxification capacity of liver.
10. Write a note on the uncouplers and inhibitors of oxidative phosphorylation.
11. Metabolic disorders of amino acids

### **SHORT ANSWERS**

**10 x 2 = 20 Marks**

12. Water balance in the body
13. Hyperbilirubinemia
14. Isoenzymes.
15. Ketone bodies
16. Galactose tolerance test
17. Creatinine clearance
18. Enzyme induction and repression.
19. Cytochromes.
20. Urinary tract calculi
21. HDL and LDL

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