

# Rajiv Gandhi University of Health Sciences, Karnataka

I Year Pharma-D Examination – Aug / Sep 2011

**Time: Three Hours**

**Max. Marks: 70 Marks**

## MEDICAL 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 replication of DNA in detail.
2. Explain the reaction and energetics of TCA cycle. Add a note on its amphibolic nature.
3. Explain the reactions sequence, significance and energetics of glycolysis.

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

**6 x 5 = 30 Marks**

4. What tests are conducted to check kidney function? Discuss briefly.
5. How ketolysis takes place in the body? Explain.
6. Write short note on inhibitors and uncouplers of ETC.
7. Discuss the glucose tolerance test along with its significance.
8. Describe lipid profile.
9. Write a note on competitive enzyme inhibitors.
10. Explain gluconeogenesis.
11. How do you evaluate liver function?

#### **SHORT ANSWERS**

**10 x 2 = 20 Marks**

12. Explain briefly different types of Jaundice.
13. Give Michaelis Menten equation with notations used.
14. Describe the role of hydrogen bonding in DNA.
15. What is alkaptonuria?
16. Amino acid pool.
17. Write a note on nitrogen balance.
18. Distinguish between Diabetes Mellitus and Diabetes Insipidus.
19. Give the structure and significance of cyclic AMP.
20. Give the physiological role of folic acid.
21. Name the nitrogenous base, present in DNA and RNA.

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