



Rajiv Gandhi University of Health Sciences, Karnataka

First Year Pharma-D Examination – March - 2010

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 process of oxidative phosphorylation and coupling phenomenon in the respiratory chain.
2. Explain the factors affecting enzyme activity. Write the properties of enzymes.
3. Explain the steps involved in the protein biosynthesis.

SHORT ESSAYS (Answer any Six)

6 x 5 = 30 Marks

4. Outline and explain the oxidative phase reactions of HMP shunt pathway.
5. How do you evaluate non protein nitrogen constituents?
6. Explain ketogenesis.
7. Describe the various steps involved in the biosynthesis of cholesterol.
8. Discuss glycogenolysis.
9. Write a note on inhibitors of protein synthesis.
10. Describe the biochemical organization of the cell.
11. Discuss the mechanism involved in the repair of DNA.

SHORT ANSWERS

10 x 2 = 20 Marks

12. What is insulin? Give its biological role.
13. Write a brief note on water balance.
14. Structure of DNA.
15. List out Lipid Profile tests.
16. Write the significance of Radio immuno assay.
17. Write about the transport process across the cell membrane.
18. Write a note on Heme degradation.
19. Name the quantitative and semiquantitative test of urine analysis.
20. Give two tests to assess hepatic function.
21. Write a brief note on deamination of amino acids.

