



Rajiv Gandhi University of Health Sciences, Karnataka

First Year Pharma-D Examination – Feb/March 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. Describe in detail the various stages involved in the biosynthesis of purines and its metabolism
2. What are Enzymes? Write the IUB classification of Enzymes with examples. Discuss the various factors affecting the enzyme activity
3. Describe in detail the biosynthetic pathway of cholesterol

SHORT ESSAYS (Answer any Six)

6 x 5 = 30 Marks

4. Discuss the production of Bile pigments. Discuss in detail various types of Jaundice
5. What is ELISA? Discuss the principle and various methods involved in the ELISA technique
6. Discuss in detail β oxidation of fatty acids
7. Write the biochemical reactions involved in the HMP pathway
8. What is Gluconeogenesis? Write the biochemical reactions in the formation of ketone bodies and their biochemical significance
9. Write in brief the various coenzymes involved in the biological oxidation
10. Write the catabolism of any two amino acids
11. Write in detail the kidney function tests

SHORT ANSWERS

10 x 2 = 20 Marks

12. Discuss the various methods employed in the estimation of calcium & chlorides in the biological fluids
13. What are Uncouplers of Electron Transport Chain
14. What is diabetic mellitus & diabetes insipidus
15. Differentiate between ketogenesis and ketolysis
16. What is oxidative phosphorylation
17. Write the importance of alpha ketoglutarate in Ammonia detoxification
18. What is Gout? Write its clinical manifestations
19. Discuss the test for excretory function of kidneys
20. Differentiate between good & bad cholesterol
21. What is galactose tolerance test

