

Rajiv Gandhi University of Health Sciences, Karnataka

I Year Pharma-D Examination – Mar 2013

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. What are enzymes & coenzymes? Classify them with examples. Give the importance of Michaelis – Menten equation in enzyme kinetics
2. Discuss in detail catabolism of any three Aminoacids
3. Write the biochemical reactions involved in TCA cycle along with the energetics

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

4. Discuss various types of enzyme inhibitions with examples
5. Write the various stages of urea cycle
6. Discuss in detail Glycogenesis & Glycogenolysis
7. What are Lipoproteins? Give its composition & functions
8. Describe the principle & methodology in the determination of hormones by RIA
9. What is Hyperchloremic acidosis? Give the clinical importance of low & high serum chloride levels. Write the principle & reactions involved in the estimation of chlorides in various biological samples
10. Discuss in detail various types of Jaundice and formation of Bile pigments
11. Add a note on metabolism of purine nucleotides

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

12. Write the principle involved in the estimation of creatinine in urine
13. What is glucose tolerance test? Give its importance
14. What is fatty liver? Write its clinical manifestations
15. What is Hyperammonemia type 1 & Hyperammonemia type 2
16. What is protein turn over & nitrogen balance
17. Give the test for hepatic dysfunction
18. Write the physiological importance of LDL & HDL
19. Write the biochemical reactions involved in the conversion of UMP to TMP
20. Write the importance of various RNAs in protein synthesis
21. Differentiate between serum lipids & lipoproteins
