



Rajiv Gandhi University of Health Sciences, Karnataka

I Year Pharma-D Examination – Sep 2012

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. Write in detail biochemical reactions involved in the respiration / glucose metabolism
2. What is ammonia intoxication? Discuss in detail the various stages of urea cycle & give its significance
3. Discuss in detail Anabolism & catabolism of fatty acids

SHORT ESSAYS (Answer any Six)

6 x 5 = 30 Marks

4. Write in detail Electron Transport Chain and uncouplers of ETC
5. Write examples for the following enzymatic reactions
a) Transamination (b) Deamination
6. Write a note on formation of Bile Pigments & give its significance
7. Outline the various biochemical reactions involved in HMP shunt pathway & write its significance
8. Discuss briefly various factors affecting the enzyme activity
9. Outline the biosynthesis of pyrimidines
10. Write briefly the process of Transcription & translation in protein synthesis
11. Write in detail the significance of cyclic AMP

SHORT ANSWERS

10 x 2 = 20 Marks

12. Write the principle & methodology employed in the RIA
13. What is Gluconeogenesis? Give its importance
14. Differentiate between Triglycerides & Lipoproteins
15. Write the therapeutic & diagnostic applications of enzymes
16. What is porphria & Hyperbilirubinemia
17. What is genetic Code? Write the base pairing in any codon
18. Write the principle & reactions involved in the estimation of calcium in biological samples
19. Write the principle involved in the estimation of cholesterol in serum
20. Give the importance of SPGT & SGOT in serum
21. Write the biochemical reactions involved in the conversion of IMP to Guanine

