

# 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

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