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Rajiv Gandhi University of Health Sciences, Karnataka II Year B.Pharm Degree Examination - Aug / Sep 2011

Time: Three Hours Max. Marks: 80 Marks

APPLIED BIOCHEMISTRY (RS - 2)

Q.P. CODE: 1959

Your answers should be specific to the questions asked Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two)

 $2 \times 10 = 20 \text{ Marks}$

- 1. Explain the I U B system of classification of enzymes with examples. Discuss how pH & temperature affect the activity of enzymes
- 2. Describe the steps involved in the complete oxidation of pyruvate in TCA cycle. Give the overall energetics in the anaerobic and aerobic glucose catabolism
- 3. Describe the steps involved in the biosynthesis of cholesterol. Explain the various products derived form cholesterol

SHORT ESSAYS (Answer any Eight)

 $8 \times 5 = 40 \text{ Marks}$

- 4. Describe the reactions of urea cycle
- 5. What is mutation? Discuss its repair mechanism
- 6. Give the salient features of Watson & Crick model of DNA
- 7. Explain the process of deamination of amino acid with examples
- 8. Biosyntheis of pyrimidine nucleotides
- 9. Describe the steps involved in the biosynthesis of creatinine
- 10. Explain the process of initiation of protein synthesis with diagrams
- 11. Explain kidney function tests
- 12. What are high energy compounds? Explain giving examples
- 13. Explain the enzymes of biological oxidation

SHORT ANSWERS

 $10 \times 2 = 20 \text{ Marks}$

- 14. Uncouplers of ETC
- 15. Competitive enzyme inhibition
- 16. Role of carnitine in β oxidation
- 17. Ketosis
- 18. Coenzymic forms of pyridoxine
- 19. Role of TPP
- 20. Structure and function of phosphatidyl choline
- 21. Transamination
- 22. Enzymes of fatty acid synthase complex
- 23. Cyclic AMP
