

Rajiv Gandhi University of Health Sciences, Karnataka II Year B.Pharm Degree Examination - Mar 2013

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. Describe the biosynthesis of cholesterol in the body and give its significance.
- 2. Give the classification of amino acids and describe the reactions involved in the metabolism.
- 3. Define coenzymes and discuss the important role of various types of coenzymes.

SHORT ESSAYS (Answer any Eight)

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

- 4. Describe the glucose tolerance test [GTT].
- 5. What is gluconeogenesis? Explain the reactions involved in it.
- 6. Give the daily requirement, functions and deficiency disorders of vitamin D.
- 7. Explain electron transport chain with sites of ATP formation.
- 8. Describe the double helical structure of DNA.
- 9. Explain uronic acid pathway.
- 10. Describe the structure and functions of t-RNA.
- 11. Describe the catabolism of purine nucleotides.
- 12. What is enzyme? Give the IUB classification of enzymes.
- 13. Explain substrare level phosphorylation and oxidative phosphorylation.

SHORT ANSWERS

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

- 14. Define enzyme inhibition.
- 15. Name the sulphur containing amino acids and give the structure of any one.
- 16. Name the ketone bodies and give their structure.
- 17. Write the significance of HMP Pathway.
- 18. What is turn over number of an enzyme?
- 19. What is alcaptanurea?
- 20. Define apo enzyme and holo enzyme.
- 21. Define mutation.
- 22. Define hyperbilirubinemia.
- 23. Name the uncouplers of ETC.
