Rajiv Gandhi University of Health Sciences, Karnataka Second Semester B.Pharm Degree Examination – 08-Dec-2020

Time: Three Hours

Biochemistry Q.P. CODE: 5007

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

LONG ESSAYS (Answer any Two)

- 1. Define and explain the reaction sequences of glycolysis and its energetic.
- 2. Explain the de novo biosynthesis of fatty acids along with enzyme system involved.
- 3. Mention the types of RNA. Explain their role in protein synthesis.

SHORT ESSAYS (Answer any Seven)

- 4. Explain the competitive enzyme inhibition with example.
- 5. Define carbohydrates. Classify them with examples and their biological significance.
- 6. Explain the rotary motor model for ATP generation.
- 7. Describe the hormonal regulation of blood glucose level.
- 8. Give the structure and biological significance of ATP and cyclic AMP.
- 9. Define free energy Enthalpy and Entropy. Explain the relation between them.
- 10. Explain the disorders of lipid metabolism.
- 11. Explain HMP shunt pathways and its significance.
- 12. Describe the double helical structure of DNA.

SHORT ANSWERS (Answer All)

- 13. What is gout?
- 14. Name the glucogenic amino acids.
- 15. Define energy rich compounds with examples.
- 16. What are cofactors? Give examples.
- 17. Write the uncouplers of ETC.
- 18. What is β -oxidation of fatty acids?
- 19. Write the types of diabetes mellitus.
- 20. What is phenylketonuria?
- 21. Define and classify Jaundice.
- 22. Write the differences between DNA and RNA.

7 x 5 = 35 Marks

10 x 2 = 20 Marks

2 x 10 = 20 Marks

Max. Marks: 75 Marks