

Rajiv Gandhi University of Health Sciences, Karnataka
Second Semester B.Pharm Degree Examination – MAY-2018

Time: Three Hours

Max. Marks: 75 Marks

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)

2 x 10 = 20 Marks

1. Explain the De novo biosynthesis of fatty acids along with the enzyme system involved.
2. Explain the general reactions involved in the metabolism of amino acids.
3. Explain the various reactions involved in Krebs cycle with energetics.

SHORT ESSAYS (Answer any Seven)

7 x 5 = 35 Marks

4. Define Gluconeogenesis. Explain the reactions involved in it and write its importance.
5. Write the formation of ketone bodies in the body.
6. Give the chemical classification of amino acids.
7. Describe the double helical structure of DNA.
8. Explain the disorders of lipid metabolism.
9. Define genetic code and give its salient features.
10. Explain competitive enzyme inhibition with examples.
11. Discuss the hormonal regulation of blood glucose level in the body.
12. Define Enthalpy and Entropy. Explain the relationship between them.

SHORT ANSWERS (Answer All)

10 x 2 = 20 Marks

13. Define essential fatty acids with examples.
14. Give the physiological functions of serotonin.
15. What is Phenylketonuria?
16. What are the functions of t-RNA?
17. Write the biological functions of proteins.
18. Write any two biochemical functions of cholesterol.
19. What are lipotropic factors? Name them.
20. Write four differences between DNA and RNA.
21. Define energy rich compounds with examples.
22. What is ketosis?
