

Rajiv Gandhi University of Health Sciences, Karnataka

Second Semester B.Pharm Degree Examination – 03-Jun-2023

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
All the questions are compulsory

LONG ESSAYS

2 x 10 = 20 Marks

1. Define Enzyme, kinetics and significance of K_m values.
OR
Define Glycolysis and explain the reactions involved in it with its energetics.
2. Explain the process of β -oxidation of fatty acids with energetics.

SHORT ESSAYS

7 x 5 = 35 Marks

3. Explain Glycogenesis and Glycogenolysis.
OR
Explain the biologically important compounds obtained from cholesterol.
4. Write the Catabolism of Purine Nucleotides.
OR
Explain general reactions of amino acids.
5. Explain Semi-conservative model of replication of DNA.
6. Discuss the disorders of urea cycle.
7. Give the biosynthesis of Pyrimidine Nucleotides.
8. Explain competitive inhibition with examples.
9. Explain the reactions and components of electron transport chain.

SHORT ANSWERS

10 x 2 = 20 Marks

10. Write the significance of HMP pathway.
11. Define Nucleosides and Nucleotides.
12. What are uncouplers? Give example. Mention their role.
13. Define Atherosclerosis.
14. Name the Enzymes and co-enzymes present in the enzyme Pyruvate Dehydrogenase Complex.
15. Define Free-energy and Redox potential.
16. Name the Sulphur containing amino-acids.
17. What is albinism?
18. Define Ketosis.
19. Name the Bile-Salts and Bile-Pigments.
