

Rajiv Gandhi University of Health Sciences, Karnataka
Second Semester B.Pharm Degree Examination – 08-Nov-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. Explain the biosynthetic pathway of purine nucleotide.
OR
Explain the De novo biosynthesis of fatty acids with all the enzymes involved.
2. Explain the various reactions involved in Krebs cycle with its energetics.

SHORT ESSAYS

7 x 5 = 35 Marks

3. Write the formation of ketone bodies in the body.
OR
Explain the chemiosmotic theory of oxidative phosphorylation.
4. Write the process of transcription.
OR
Give the structure and biological significance of ATP and Cyclic AMP.
5. Discuss the hormonal regulation of blood glucose level.
6. Define coenzymes. Discuss the different types of coenzymes associated with Vitamin B-complex.
7. Write the disorders of lipid metabolism.
8. Classify enzymes according to IUB with example.
9. Define and classify amino acids with examples.

SHORT ANSWERS

10 x 2 = 20 Marks

10. Name the purine and pyrimidine bases.
11. What is albinism?
12. What is redox potential?
13. What are delinking agents give examples.
14. Write significance of HMP shunt.
15. List the difference between DNA and RNA.
16. Define genetic code.
17. Write the significance of 5-HT and dopamine.
18. Define Hyperbilirubinemia.
19. Define Allosteric enzymes.
