

Rajiv Gandhi University of Health Sciences, Karnataka

Second Semester B.Pharm Degree Examination – 02-Jul-2022

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 biosynthesis of proteins in the body.

OR

Explain the De novo biosynthesis of fatty acids.

2. Define gluconeogenesis and explain the reactions involved and its significance.

SHORT ESSAYS

7 x 5 = 35 Marks

3. Explain the synthesis of bile acids.

OR

Write the catabolism of purine nucleotides.

4. Write the formation of ketone bodies in the body.

OR

Explain glycogen storage diseases.

5. Explain the structure of t-RNA and its functions.

6. Explain electron transport chain.

7. Give the amphibolic nature and energetics of TCA Cycle.

8. Define energy rich compounds and classify with suitable examples.

9. Define enzyme inhibition and discuss any one type of enzyme inhibition.

SHORT ANSWERS

10 x 2 = 20 Marks

10. Name the different types of jaundice.

11. What are okazaki fragments?

12. Write the biological significance of proteins.

13. Name the essential amino acids.

14. What is alkaptonuria?

15. Write the inhibitors of ETC.

16. Write any two biochemical functions of cholesterol.

17. What are lipotropic factors? Name them.

18. Define free energy and redox potential.

19. Write four differences between DNA and RNA.
