

# Rajiv Gandhi University of Health Sciences, Karnataka

## Second Semester B.Pharm Degree Examination – 06-May-2025

**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. Discuss the various factors affecting enzyme activity

**OR**

Define Gluconeogenesis and explain the reaction involved in it with significance

2. Explain De novo Biosynthesis of fatty acid in the body

#### **SHORT ESSAYS**

**7 x 5 = 35 Marks**

3. Describe various types of enzyme inhibitors

**OR**

Discuss the biological significance of protein in the body

4. Explain disorders of lipid metabolism

**OR**

Explain Electron transport chain

5. Write the formation of ketone bodies

6. Give the chemical classification of amino acids

7. Explain different types of RNA

8. Define Genetic code and give its salient features

9. Discuss Glycogen storage diseases

#### **SHORT ANSWERS**

**10 x 2 = 20 Marks**

10. Write the functions of adrenaline

11. Write the role of Carnitine in the oxidation of fatty acids

12. Name the different types of jaundice

13. Name the energy rich compounds

14. What is Phenylketonuria (PKU)?

15. What is hyperuricemia?

16. What are Iso-enzymes give example

17. Write the significance of HMP pathway

18. What is gout?

19. Define enzyme induction give example

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