

# Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.P.T. Degree Examination – 25-Nov-2024

**Time: Three Hours**

**Max. Marks: 80 Marks**

## **BIOCHEMISTRY (RS-5)**

**Q.P. CODE: 2733**

Your answers should be specific to the questions asked  
Draw neat, labeled diagrams wherever necessary

### **LONG ESSAYS (Answer any One)**

**1 x 10 = 10 Marks**

1. Explain the sources, daily requirement, functions and deficiency features of Vitamin C.
2. Mention various transport systems across the cell membrane.

### **SHORT ESSAYS (Answer any Eight)**

**8 x 5 = 40 Marks**

3. Urea cycle
4. Mechanism of muscle contraction
5. What is Gluconeogenesis? Explain the key steps with key enzymes in conversion of alanine to glucose.
6. Explain the structure and function of tRNA.
7. Functions of Pyridoxine with deficiency manifestations.
8. Explain any five factors affecting enzyme activity.
9. Define Basal Metabolic Rate. Mention the factors affecting BMR.
10. Liver function tests.
11. Describe the types, features and management of Diabetes Mellitus.
12. Mucopolysaccharides.

### **SHORT ANSWERS**

**10 x 3 = 30 Marks**

13. Functions of Lysosomes.
14. Beri Beri
15. Active site of enzymes.
16. Lactose intolerance.
17. Functions of collagen.
18. Any three functions of Phosphorus.
19. Any three functions of phospholipids.
20. Essential fatty acids.
21. Arthrosclerosis.
22. Features of Rickets.

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