

# Rajiv Gandhi University of Health Sciences, Karnataka

## I Year B.P.T. Degree Examination – 08-May-2026

**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 steps of urea cycle. Write the disorders of urea cycle.
2. Write the sources, RDA, functions and deficiency disorders of Vitamin D.

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

**8 x 5 = 40 Marks**

3. Write the nutritional importance of lipids.
4. Define and write the functions of heteropolysaccharides with examples.
5. Explain the absorption of iron.
6. Explain the structure and functions of mitochondria.
7. Define buffers and write about the bicarbonate buffer system in our body.
8. Define dietary fibres and add a note on the beneficial effects of it.
9. Write the diagnostically important enzymes and their significance.
10. Explain the structure and functions of t RNA.
11. Explain the types, features and management of Diabetes Mellitus.
12. Explain the digestion and absorption of lipids.

#### **SHORT ANSWERS**

**10 x 3 = 30 Marks**

13. Deficiency of niacin.
14. Mitochondria.
15. Benedict's test.
16. Write the normal levels of serum uric acid and creatinine in our body.
17. Define essential amino acid.
18. Define pro enzyme and active site of an enzyme.
19. Define ketosis.
20. Scurvy.
21. Write two functions of copper.
22. Define active transport.

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