Rajiv Gandhi University of Health Sciences, Karnataka

BI Year B.P.T. Degree Examination – 29-Oct-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. What are the functions of calcium? Explain the regulation of serum calcium levels in our body.
2. Explain the types of diabetes Mellitus. Add a note on Glucose tolerance test.

SHORT ESSAYS (Answer any Eight) **8 x 5 = 40 Marks**

3. What are isoenzymes? Give examples of isoenzymes used in diagnosis.
4. Name the ketone bodies. Explain the steps of Ketogenesis.
5. Functions and deficiency features of vitamin B1
6. Urea cycle.
7. Classify carbohydrates with examples.
8. Balanced diet.
9. Protein energy malnutrition.
10. Renal regulation of acid base balance.
11. Liver function tests.
12. Steps of Glycogenesis.

SHORT ANSWERS **10 x 3 = 30 Marks**

13. Pellagra.
14. Hemosiderosis
15. Benedict's test
16. Deficiency features of Vitamin C
17. Mention any two isoenzymes.
18. Primary structure of proteins
19. Myosin.
20. Mention the causes of metabolic acidosis.
21. Functions of copper
22. Write the normal reference ranges of a) Serum Creatinine b) Serum Total Cholesterol.

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