

**Rajiv Gandhi University of Health Sciences, Karnataka**  
**I Year B.P.T. Degree Examination – 14-Nov-2025**

**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. Write in detail about Beta oxidation of Fatty acid.
2. Describe in detail the chemistry, sources, daily requirement, biochemical functions and deficiency manifestations of vitamin A.

**SHORT ESSAYS (Answer any Eight)**

**8 x 5 = 40 Marks**

3. Classification of lipids.
4. Protein energy malnutrition.
5. Diabetes mellitus.
6. Urea cycle.
7. Diagnostic importance of enzymes.
8. Basal metabolic rate.
9. Biologically important peptides.
10. Regulations of plasma calcium levels.
11. Important compounds synthesized from cholesterol.
12. Functions and deficiency features of vitamin C

**SHORT ANSWERS**

**10 x 3 = 30 Marks**

13. Structure of tRNA.
14. Creatinine clearance.
15. Beri Beri.
16. Essential amino acids.
17. Transamination.
18. Structure of plasma membrane.
19. Normal level of cholesterol and calcium.
20. Henderson -Hasselbalch equation.
21. Fatty liver.
22. Km value and its significance.

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