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# Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. (M.L.T) Degree Examination – Aug 2013

**Time: Three Hours****Max. Marks: 80 Marks****BIOCHEMISTRY – II (RS - 2)****Q.P. CODE: 1231**

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

**LONG ESSAYS (Answer any Two)****2 x 10 = 20 Marks**

1. Describe the sources, functions, RDA & deficiency manifestations of Vitamin A.
2. Outline the citric acid cycle, give the energetics. Explain Anaplerosis.
3. How are enzymes classified, explain giving suitable examples.

**SHORT ESSAYS (Answer any Six)****6 x 5 = 30 Marks**

4. Functions & deficiency manifestations of vitamin B 12.
5. Coenzyme forms of niacin, riboflavin, thiamine with a reaction for each.
6. Digestion and absorption of carbohydrates.
7. *Anticoagulant role of vitamin K*
8. Flame photometer
9. *Abnormal constituents of urine*
10. Galactosemia
11. *Sample collection & preservation for urine protein estimation*

**SHORT ANSWERS (Answer any Ten)****10 x 3 = 30 Marks**

12. Ketone bodies
13. scurvy
14. Dietary fibres
15. Three enzymes, indicating their clinical importance.
16. Biotin
17. Biological reference intervals of serum electrolytes
18. Viscosity
19. Turbidimetry
20. Kwashiorkor
21. Classes of immunoglobulins
22. Beer-Lamberts Law.
23. Bence -Jones Proteins.

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