



**Rajiv Gandhi University of Health Sciences, Karnataka**  
**III Year B.Sc. (M.L.T) Degree Examination – Sep 2012**

**Time: Three Hours****Max. Marks: 80 Marks****BIO-CHEMISTRY – III (RS-2)****Q.P. CODE: 2901**

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. Write the sources, RDA, absorption and biochemical functions of calcium
2. Explain glomerular function test in detail
3. Classify the diseases associated with acid-base disturbances. Add a note on respiratory acidosis.

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

4. Write a note on diseases associated with copper metabolism
5. Explain the process of formation of bilirubin
6. Phenylalanine is both glucogenic and ketogenic. Justify.
7. Write a short note on genetic engineering
8. Write in short about the different biological effects of radiation on normal living tissue
9. ELISA
10. Nutritional classification of protein
11. Explain the mechanism of production of HCl in stomach

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

12. Bromosulphthalein test
13. Augmented histamine test
14. Applications of PCR
15. Isoenzymes of LDH
16. Bence Jones proteins
17. Anion gap
18. Thyroid Uptake studies
19. Hyponatremia
20. Write the normal levels of: LDH, SGOT, ALP
21. Essential amino acids.
22. Achlorohydria
23. Albinism

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