

Rajiv Gandhi University of Health Sciences, Karnataka
III Year B.Sc. (M.L.T) Degree Examination – Aug 2013

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

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LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

1. What are buffers? Describe in detail the role various blood buffers in the maintenance of acid base balance. Add a note on metabolic alkalosis.
2. What are the source, RDA, Biochemical functions and deficiency disorders of calcium?
3. What is the composition and functions of gastric juice? How do you measure free and total acidity? Mention the causes of hypoacidity.

SHORT ESSAYS (Answer any Six)

6 x 5 = 30 Marks

4. Transamination

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5. Formation of bilirubin
6. Important products derived from glycine.
7. *Renal clearance test*
8. What are the sources of iron? Describe the disorders associated with iron metabolism.
9. Radio Immunoassay
10. Biochemical functions of phosphorous
11. Cardiac markers

SHORT ANSWERS (Answer any Ten)

10 x 3 = 30 Marks

12. Chloride shift

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13. Essential amino acids
14. Mean and Standard deviation
15. Types of RNA and their function
16. Write the different types of renal stones
17. Define Osmolality. Mention the substances that contribute to serum osmolality.
18. *Principle of ELISA*
19. Ceruloplasmin
20. Hyperkalemia
21. Mention any three enzymes used in diagnosis of liver disorders along with their biological reference ranges.

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22. What is DNA replication? Mention any two enzymes involved in DNA replication.
23. *Functions of zinc*

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