

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.P.T. Degree Examination – April 2014

Time: Three Hours**Max. Marks: 80 Marks**

BIO-CHEMISTRY (RS-3 & RS-4)

Q.P. CODE: 2703

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

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

1. What is normal pH of the blood? Describe different mechanisms in the maintenance of acid base balance.
2. What is glycolysis? Describe its reactions and a note on its energetic.
3. Describe the sources, requirement, metabolic functions and deficiency manifestations of vitamin D.

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

4. Urea cycle
5. Functions of calcium
6. Respiratory acidosis
7. Fatty liver
8. Biochemical function and absorption of Iron
9. Dietary fibres
10. Specific dynamic action
11. Enzymes of diagnostic importance
12. Renal regulation of acid-base balance
13. Phospholipids

SHORT ANSWERS**10 x 2 = 20 Marks**

14. Name the co-enzymes of a) Niacin b) Folic acid
15. Cyclic –AMP
16. Transamination
17. Nucleotides of biological importance
18. Essential fatty acids
19. Phenyl Ketonuria
20. Proenzymes
21. Name the vitamin deficient in a) Beri-Beri b) Pellagra
22. Disaccharides
23. Ribosomes