

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.P.T. Degree Examination – APRIL 2015

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. Define enzymes. How enzymes are classified give examples for each class
2. Describe the chemistry, sources, RDA, metabolic functions and deficiency symptoms of vitamin C (Ascorbic acid)
3. Describe aerobic Glycolysis. Add a note on the bioenergetics of the pathway

SHORT ESSAYS (Answer any Eight)

8 x 5 = 40 Marks

4. Ketogenesis
5. Urea cycle
6. Classification of proteins based on functions
7. Basal metabolic rate
8. Mucopolysaccharides
9. Fluid mosaic model of cell membrane
10. Collagen
11. Structure and functions of DNA
12. Creatinine clearance test
13. Balanced diet

SHORT ANSWERS

10 x 2 = 20 Marks

14. Essential fatty acids functions and deficiency
15. Kwashiorkor
16. **Essential amino acids**
17. Active site
18. Beri – beri
19. Functions of iron
20. Metabolic acidosis
21. Name the coenzymes of (A) Thiamine (B) Pyridoxine
22. Name any four physiological importance substances produced by tyrosine
23. Structure of tRNA
