

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.P.T. Degree Examination – Sep 2012

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. Explain hormonal regulation of blood glucose. Add a note on glycosuria
2. Describe the sources, RDA, Absorption, Metabolic functions and deficiency symptoms of calcium
3. Describe beta oxidation of palmitic acid. How many ATPs are produced by the complete oxidation

SHORT ESSAYS (Answer any Eight)

8 x 5 = 40 Marks

4. Denaturation of proteins
5. Glycogenolysis
6. Structure and functions of cholesterol
7. Transamination
8. Nitrogen balance
9. Functions of proteins
10. Digestion and absorption of carbohydrates
11. Specific dynamic action
12. Structure and functions of collagens
13. Dietary fibers

SHORT ANSWERS

10 x 2 = 20 Marks

14. Epimers
15. Zwitter ions
16. Essential fatty acids
17. Isoenzymes
18. Respiratory acidosis
19. Role of aldosterone in electrolyte balance
20. What are provitamins, give examples
21. Normal levels of blood urea and cholesterol
22. Name one reducing and one non reducing disaccharides
23. Rotheras test