

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.P.T. Degree Examination – SEP-2017

Time: Three Hours

Max. Marks: 80 Marks

BIOCHEMISTRY (RS-5)

Q.P. CODE: 2733

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. Describe the chemistry, source, absorption, daily requirement, deficiency disorders and biochemical role of vitamin D.
2. What is the normal PH of blood? Discuss the mechanism involved in its regulation.
3. Define enzyme, its structure and functions. Explain the mechanism of enzyme action. Add a note on inhibition of enzymes.

SHORT ESSAYS (Answer any Eight)

8 x 5 = 40 Marks

4. Bicarbonate buffer system of blood
5. Substrate level Phosphorylation
6. Functions of Niacin (Vitamin B3)
7. General mechanism of action of steroid hormones
8. What are co-enzymes? Illustrate their role in metabolism with four examples.
9. Biological active peptides
10. Mitochondrial structure and function
11. Chemical properties of carbohydrates
12. Describe the properties of lipids.
13. Name five enzymes of diagnostic significance with their normal serum level.

SHORT ANSWERS

10 x 2 = 20 Marks

14. Transamination reactions
15. Name the metabolic products of Tyrosine.
16. Name the ketone bodies. Mention two causes of ketosis.
17. Kwarshiorkar
18. What are epimors? Give example.
19. Invert sugar
20. Distinguish between DNA and RNA
21. Write the coenzyme form of: 1. Thymine, 2. Riboflavin
22. Peptide bond
23. Chori's cycle
