

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Pharm Degree Examination – Sep 2012

Time: Three Hours

Max. Marks: 80 Marks

APPLIED BIOCHEMISTRY (RS - 2)

Q.P. CODE: 1959

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. (a) What are enzymes? Give the IVB classification of enzyme with examples.
(b) Describe the types of enzymes inhibition with examples.
2. List out the steps involved in the breakdown of amino acids. Explain the complete breakdown of any one amino acid.
3. (a) Describe the different steps involved in protein biosynthesis.
(b) Renal function tests.

SHORT ESSAYS (Answer any Eight)

8 x 5 = 40 Marks

4. Homo polysaccharides.
5. Lineweaver Burke plot
6. Balanced diet.
7. Equation for deriving free energy.
8. Replication.
9. Functions and deficiency manifestations of vitamin C.
10. Give the chemical structure and properties of cholesterol.
11. Basal metabolic rate.
12. Write notes on genetic code.
13. DNA replication.

SHORT ANSWERS

10 x 2 = 20 Marks

14. Define nucleoside, nucleotide and nucleic acid.
15. Define the term Lipo proteins. Give examples.
16. Describe the synthesis of palmitic acid.
17. Hydrolysis of starch.
18. Ketone bodies.
19. Give the synthesis of active methionine.
20. Mention any two liver function tests.
21. Abnormal constituents of urine.
22. Glycolysis.
23. Cytochromes.
