

Rajiv Gandhi University of Health Sciences, Karnataka
II Year B.Pharm Degree Examination – NOV 2016

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. What are nucleic acids? Describe the biosynthesis of purine bases.
2. Describe the factors affecting enzyme activity and explain the Michaelis-menten equation.
3. Explain in detail about the protein biosynthesis.

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

4. What is cyclic AMP? Give its structure and significance.
5. What is iso-enzyme? Write in brief their clinical importance.
6. Enzyme used in clinical diagnosis.
7. Explain the glycerol phosphate shuttle.
8. Write note on metabolic product form cholesterol.
9. Discuss the physiological role of vitamin A and K.
10. Explain respiratory chain.
11. What is mutation? Explain repairing mechanism of DNA.
12. Write the synthesis and utilization of Ketone bodies.
13. Difference between DNA and RNA.

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

14. Formation of carbamyl phosphate.
15. Malate aspartate shuttle.
16. Co-enzyme.
17. Inorganic constituents of urine.
18. Glycolysis.
19. Lipid profile.
20. Inhibitors of E.T.C.
21. tRNA
22. Transcription.
23. Bile pigment.
