Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Pharm Degree Examination – NOV-2017

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. Define enzyme and classify with examples. Write the purification of enzymes.
2. Discuss the H.M.P. shunt pathway and write its significance.
3. Describe the steps involved in the anaerobic oxidation of glucose and its energetics.

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

4. Explain glucose tolerance test.
5. Describe the urea cycle.
6. Write short note on Ketogenesis.
7. Describe the mitochondrial β-oxidation.
8. Write the biochemical role and deficiency of symptoms of pyridoxine.
9. Write note on metabolism of cholesterol.
10. Write note on phospholipids.
11. Explain the replication bubble.
12. Describe the components of electron transport chain.
13. Write note on Watson and Crick model of DNA.

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

14. What is transamination?
15. What is allosteric enzyme?
16. Nitrogen balance.
17. Write structure of any two sulphur containing amino acids.
18. Significance of creatine phosphate.
19. Define porphyrine.
20. Deficiency of vitamin C.
21. What are essential fatty acids?
22. Cyclic AMP.
23. Genetic code.

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