

# Rajiv Gandhi University of Health Sciences, Karnataka

## II Year B.Pharm Degree Examination – 20-Jan-2020

**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. Discuss the reactions of TCA cycle with its Energetics.
2. What is B-oxidation? Discuss the various reactions involved in it with energetic of Saturated fatty acid as example.
3. Explain the various factors affecting Enzyme activity.

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

4. Explain Urea cycle.
5. Explain Deamination reaction of amino acids.
6. Define vitamins and classify them with examples. Discuss the role of vitamin-C in the body.
7. Define Coenzyme and discuss different types of Coenzymes and their functions.
8. Explain Glucose Tolerance Test.
9. Explain different types of RNA with their functions.
10. Explain any two kidney function tests.
11. Give the Biosynthesis of saturated fatty acids.
12. Give the Biosynthesis of pyrimidine bases in the body.
13. Explain Oxidative phosphorylation and substrate level phosphorylation.

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

14. Name any two essential fatty acids.
15. Define Glycogenesis and Glycogenolysis.
16. Name the Enzyme and Co-Enzyme present in Pyruvate Dehydrogenase complex.
17. Name the inhibitors of ETC.
18. What is Atherosclerosis?
19. Write the role of carnitine in the oxidation of fatty acid.
20. Define Iso Enzyme with example.
21. Give the structure of Purine bases.
22. What is special dynamic action of protein?
23. Name the Bile salts and Bile Pigments.

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