

**Rajiv Gandhi University of Health Sciences, Karnataka**  
**Second Semester B.Pharm Degree Examination – JUNE 2019**

**Time: Three Hours**

**Max. Marks: 75 Marks**

**Biochemistry**  
**Q.P. CODE: 5007**

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 TCA cycle and explain the reactions involved in it with energetic.
2. Discuss the biosynthesis of Purine Nucleotides in the body.
3. Explain the General reactions involved in the amino acid metabolism.

**SHORT ESSAYS (Answer any Seven)**

**7 x 5 = 35 Marks**

4. Explain the reactions of HMP pathway with its significance.
5. Describe Double helical structure of DNA.
6. Explain substrate level phosphorylation and oxidative phosphorylation.
7. Give the IUB classification of Enzymes with examples.
8. What are the energy rich compounds? Classify with examples.
9. Describe Urea cycle. Give the deficiency symptoms of urea cycle enzymes.
10. Discuss different types of Jaundices and causes.
11. Explain the important functions Phospholipids.
12. Explain Electron Transport Chain.

**SHORT ANSWERS (Answer All)**

**10 x 2 = 20 Marks**

13. Give the Diagnostic importance of enzymes.
14. Write Amphibolic nature of kreb's cycle.
15. Name the essential fatty acids.
16. What is Translation and Trancription?
17. Write the functions of t-RNA.
18. What is hyperbilirubinemia?
19. Write the Inhibitors of ETC.
20. What is hypercholesterolemia?
21. Write four differences between DNA and RNA.
22. What are cofactors give example.

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