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Total No. of Questions : 8] *[Total No. of Printed Pages : 2*

Roll No .....

PY-305-CBCS

B.Pharmacy III Semester (Non-PCI Scheme)

Examination, June 2020

Choice Based Credit System (CBCS)

Biochemistry

Time : Three Hours

Maximum Marks : 75

Note: i) Attempt any five questions.
ii) All questions carry equal marks.
iii) Subparts of the questions should be attempted in continuation.

1. What is the working of electron transport chain. Explain briefly the role of inhibitors and uncouplers.

2. Describe various types of energy rich compounds. What is the concept of free energy and enthalpy.

3. What do you understand from the term "β-oxidation". Explain its importance citing an example of Palmitic acid.

4. Elaborate the following.
   a) Cholesterol
   b) Enzyme Kinetics

5. What are the general reactions of amino acid metabolism in biological system. Elaborate Urea cycle and its importance.

6. What is the biological significance of enzymes. Discuss allosteric regulation of enzyme.

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7. Write the energetic and importance of the following.
   a) Glycolysis
   b) Gluconeogenesis

8. Write short notes on any two of the following.
   a) Metabolic disorders of lipid and carbohydrate metabolism
   b) RNA synthesis
   c) Genetic code

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