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Paper Id: 

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Sub Code:BP203T

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**B PHARM  
(SEM-II) THEORY EXAMINATION 2018-19  
BIOCHEMISTRY**

*Time: 3 Hours*

*Total Marks: 75*

**Note:** Attempt all Sections. If you require any missing data, choose suitably.

**SECTION A**

- 1. Attempt all questions in brief. 10 x 2 = 20**
- a. What are Phospholipids? Give examples.
  - b. What are energy rich compounds? Give examples.
  - c. Define Glycogenesis and Glycogenolysis.
  - d. Write the hormones involved in the regulation of blood glucose level.
  - e. What do you understand by the term Transamination? Give example.
  - f. What is Allosteric inhibition?
  - g. Define Genetic code with examples.
  - h. Write down the synthesis of 5-HT (5-hydroxytryptamine) from Tryptophan.
  - i. Write down the biological role of Nucleic Acid.
  - j. Define Enthalpy and Entropy.

**SECTION B**

- 2. Attempt any two parts of the following: 2 x 10 = 20**
- a. What is gluconeogenesis? Give an outline of reactions. How are these reactions controlled? What is biological importance of these reactions?
  - b. Give the derivation of Michaelis-Menton equation and also explain factor affecting enzyme activity.
  - c. Describe the process of DNA replication in detail.

**SECTION C**

- 3. Attempt any five parts of the following: 7 x 5 = 35**
- a. Describe Embden Meyerhof pathway (glycolysis) in the body with energetic.
  - b. Enumerate the ketone bodies. Describe the formation and utilization of ketone bodies in the body.
  - c. Discuss in detail about urea cycle. Also give the significance of urea cycle.
  - d. Write in detail the mode of protein biosynthesis with schematic representations.
  - e. What are enzymes? Describe various processes of inhibition of enzymes activity.
  - f. Write down the biosynthesis and biological significance of Dopamine, Noradrenaline and Adrenaline.
  - g. Discuss in detail about the De novo synthesis of fatty acids.