Printed Pages:1 **Sub Code:BP203T**

Paper Id: 150297 **Roll No.** | | | | | | | | | | |

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.

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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.