Roll No. | | | | | | | | | | | | |

Total No. of Pages : 02

Total No. of Questions : 10

B.Pharma (2011 to 2016) (Sem.–5)

# PHARMACEUTICAL CHEMISTRY–V

## (Biochemistry)

Subject Code : BPHM-501

M.Code : 70427

Time : 3 Hrs. Max. Marks : 80

**INSTRUCTION TO CANDIDATES :**

1. **SECTION-A is COMPULSORY consisting of FIFTEEN questions carrying TWO marks each.**
2. **SECTION-B contains FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.**
3. **SECTION-C contains FOUR questions carrying TEN marks each and students has to attempt any THREE questions.**

## SECTION-A

**1. Explain in brief :**

a) Passive diffusion.

b) Exocytosis

c) Reversible enzyme inhibitors

d) Holoenzymes

e) Gluconeogenesis

f) Endergonic reaction

g) General structure of phospholipids.

h) Structure of FAD and $FADH_2$.

i) Hydrogen bonding base pairs in DNA.

j) Anticodon

k) Ketosis

l) Initiation codon

m) Cloning

n) Vector

o) Ligase

## SECTION-B

2. Enumerate coenzyme of riboflavin. Write one reaction for each of them to illustrate their action.

3. Write note on Michaelis-Menten equation.

4. Describe various steps of ketogenesis.

5. Describe structure and function of respiratory chain.

6. Describe reactions of Urea cycle.



## SECTION-C

7. a) Describe metabolism of galactose and its inherited disorder.

   b) Discuss significance of ATP production.

8. Diagrammatically describe De novo synthesis of long chain fatty acid.

9. Describe biosynthesis of pyrimidine nucleotide.

10. Write short notes on **Any Two :**

    a) Recombined DNA technique

    b) Genetic code

    c) Formation of bile pigments

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**