

Roll No. ....

Total No. of Questions : 10]

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**B. Pharmacy (Sem. - 5<sup>th</sup>)**  
**PHARMACEUTICAL CHEMISTRY - V**  
**(Biochemistry)**

**SUBJECT CODE : PHM-3.5.1**

**Paper ID : [D0122]**

[Note : Please fill subject code and paper ID on OMR]

**Time : 03 Hours**

**Maximum Marks : 80**

**Instruction to Candidates:**

- 1) Section - A is **Compulsory**.
- 2) Attempt any **Four** questions from Section - B.
- 3) Attempt any **Three** questions from Section - C.

**Section - A**

**Q1)**

**(15 x 2 = 30)**

- a) Micelle.
- b) Isoenzyme.
- c) Glycolysis.
- d)  $\alpha$  - oxidation.
- e) Sphingosin.
- f) Eicosanoid.
- g) Anaploretic reactions.
- h) Post transcriptional processing.
- i) Codon.
- j) Redox potential.
- k) Substrate level phosphorylation.
- l) Peptide linkage.
- m) Cofactor.
- n) HMP shunt.
- o) N-glycosidic linkage.

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**(4 x 5 = 20)**

- Q2)** Define coenzymes. How they differ from cofactors. Discuss the role of coenzyme of nicotinic acid in biochemical reactions.
- Q3)** Describe the respiratory control of oxidative phosphorylation.
- Q4)** Enlist the salient features of the  $\beta$ -oxidation.
- Q5)** Discuss role of deamination reactions in amino acid metabolism.
- Q6)** Write a short note on polymerase chain reactions.

**Section - C****(3 x 10 = 30)**

- Q7)** (a) Discuss classification of enzymes according to IUB system giving classical example of each class.  
(b) Give salient features of allosteric inhibition.
- Q8)** (a) Write a note on fermentation reaction and its regulation.  
(b) Justify amphibolic nature of TCA cycle.
- Q9)** (a) Outline urea cycle and mention its importance.  
(b) Write the reactions of glycogenolysis.
- Q10)**(a) What are the various steps involved in protein synthesis? Describe any one in detail.  
(b) Give critical account of biomedical importance of gene expression.

