



PPP-1612010701050200 Seat No. _____

M. P. M. (Sem. V) Examination

November / December - 2018

Pharmaceutical Chemistry - V

(Biochemistry - II)

Time : 3 Hours]

[Total Marks : 80

- Instructions :**
- (1) Figures to the right indicate marks.
 - (2) Answer any three questions from each section.
Question one and question five are compulsory.
 - (3) Draw neat and clean diagram when required.

SECTION - 1

- 1** Answer the following questions : (any seven) **14**
 - (a) Classify protein according to function.
 - (b) Define : Endergonic and Exergonic reaction.
 - (c) Give the example of sulphur containing amino acid.
 - (d) Define : Zwitterions.
 - (e) Define : Bioenergetics.
 - (f) What is relationship between free energy, enthalpy and entropy ?
 - (g) What is Denaturation ?
 - (h) What is P : 0 ration ?
 - (i) Draw : Electron Transport Chain.

- 2** Answer the following questions :
 - (a) Explain Urea cycle in detail with disorder. **7**
 - (b) Functions of DNA and RNA. **6**

- 3** Answer the following questions :
 - (a) Discuss : Polymerase Chain Reaction. **7**
 - (b) Explain : Lactose operon. **6**

- 4** Answer the following questions :
 - (a) Describe briefly secondary structure of protein. **7**
 - (b) Discuss : Mechanism of oxidative phosphorylation. **6**

SECTION - 2

- 5** Answer any **two** out of three : **14**
- (a) Explain : Gene expression in detail.
 - (b) Discuss about Electrophoresis technique.
 - (c) Discuss : Helix structure of DNA.
- 6** Answer the following questions :
- (a) Discuss : Components of Electron Transport Chain. **7**
 - (b) Write a note on inhibitors of electron transport chain. **6**
- 7** Answer the following questions :
- (a) Explain about enzymes involved in biological oxidation. **7**
 - (b) Classify : Inhibitors of oxidative phosphorylation. **6**
- 8** Answer the following questions :
- (a) Explain : Deamination and Transamination. **7**
 - (b) Define protein. Enumerate classification of amino acid. **6**
Briefly classify amino acid based on structure.
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