

SUBJECT : PHARMACEUTICAL BIOCHEMISTRY – I

Day : Saturday
Date : 17/11/2018

W-2018-4069

Time : 10.00 A.M. TO 01.00 P.M.
Max. Marks : 60

N.B.:

- 1) **Q.No.1** and **Q.No.5** are **COMPULSORY**. Out of the remaining questions attempt **ANY TWO** questions from each section.
 - 2) Answers to both the sections should be written in **SEPARATE** answer books.
 - 3) Figures to the right indicate **FULL** marks.
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SECTION – I

- Q.1** Attempt **ANY FIVE** of the following: [10]
- a) What are isoenzymes? Give any two examples.
 - b) Give structure of glycogen.
 - c) State principle of ion exchange chromatography.
 - d) Why peptide bond remains in one plane?
 - e) What is specific activity of an enzyme?
 - f) Describe the action of cyanogen bromide on polypeptide.
- Q.2** a) What is gel filtration? Describe in detail. [07]
b) What is electro-dialysis? State its importance in protein isolation. [03]
- Q.3** a) What are antimetabolites? State any two examples and illustrate their mode of action. [07]
b) What are excitable membranes? Explain in detail. [03]
- Q.4** Write notes on **ANY TWO** of the following: [10]
- a) Liposome
 - b) Protein Data Bank
 - c) Structure of keratin

SECTION – II

- Q.5** Attempt **ANY FIVE** of the following: [10]
- a) State any two industrial applications of enzymes.
 - b) State any two pharmaceutical uses of Starch.
 - c) Name the enzymes used in production of high fructose syrup.
 - d) What are nucleosides? Give structure of thymidine.
 - e) State structure of lactose.
 - f) What are detergent enzymes? Give examples.
- Q.6** a) What are allosteric enzymes? Explain their role in feed back inhibition. [07]
b) What are phospholipids? Give examples with their structures. [03]
- Q.7** a) What are co-enzymes? Explain in detail. [07]
b) What is Enzyme immobilization? [03]
- Q.8** Write notes on **ANY TWO** of the following: [10]
- a) DNA structure
 - b) Enzyme as Biological Indicators
 - c) Industrial use of penicillin acylase

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