

Total No. of Questions : 6]

SEAT No. :

P3151

[Total No. of Pages : 2

[5245]-303

S.Y. B. Pharmacy (Semester - III)
PHARMACEUTICAL BIOCHEMISTRY
(2013 Pattern) (Theory)

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *All questions are compulsory.*
- 2) *Answers to the two sections should be written in separate answer books.*
- 3) *Neat diagrams must be drawn wherever necessary.*
- 4) *Figures to the right indicate full marks.*

SECTION - I

Q1) What is Secondary structure of proteins?

Write in detail about Globular and Fibrous Proteins giving suitable examples.
[10]

OR

Give a complete Classification of lipids with suitable examples.
Explain the significance of Iodine value and Saponification value.

Q2) Write in brief on **any five** of the following: **[15]**

- a) Biuret test
- b) Compare Starch and Cellulose
- c) Biological functions of carbohydrates
- d) Genetic code
- e) mRNA
- f) Lipoproteins
- g) Allosteric enzymes

Q3) Write short notes on **any two** of the following: **[10]**

- a) Competitive Enzyme Inhibition
- b) Classify Enzymes giving examples
- c) Edman's Degradation

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SECTION - II

Q4) Explain the process of Glycolysis in detail. Give its significance. **[10]**

OR

Explain the in detail beta oxidation of long chain fatty acids containing even and odd no. of carbons.

Q5) Attempt short note on any five of the following: **[15]**

- a) Gluconeogenesis
- b) Oxidative Deamination
- c) Fate of Pyruvate
- d) Ketone bodies
- e) Triglyceride Synthesis
- f) Oxidative phosphorylation
- g) Vitamin B6

Q6) Write notes on any two of the following: **[10]**

- a) Purine catabolism
- b) What is HMP shunt? Give its significance
- c) Transamination and its biological importance

