

Total No. of Questions : 6]

SEAT No. :

[Total No. of Pages :2

P1440

[5049]-303

S.Y.B.Pharmacy

PHARMACEUTICAL BIOCHEMISTRY

(2013 Pattern) (Semester-III) (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) Attempt any one of the following: **[10]**

- a) Define Enzymes, coenzymes. Explain in detail factors affecting Enzyme activity.
- b) Define and classify lipids with suitable examples. Give their functions in detail.

Q2) Attempt any five of the following: **[15]**

- a) Biochemical functions of nucleic acids.
- b) Explain functions and biological role of Glucose.
- c) Explain secondary structure of protein.
- d) Explain functions and biological role of Galactose.
- e) Write a note on Haemoglobin.
- f) Write a note on Keratin.
- g) Write a note on Colour reaction of amino acids.

Q3) Attempt any two of the following: **[10]**

- a) Explain in detail Replication.
- b) Allosteric inhibition.
- c) Explain Mechanism of enzyme Action.
- d) Explain medicinally important of Amino acids.

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SECTION-II

Q4) Attempt any one of the following: **[10]**

- a) Define metabolism and enlist diff. pathway of carbohydrate metabolism and explain in detail glycolysis.
- b) Define metabolism and explain in detail Beta oxidation of fatty acids.

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

- a) Write a note on cholesterol.
- b) Biochemical function of Vit.A.
- c) Biochemical function of Vit.C.
- d) Write a note on Oxidative deamination of amino acids.
- e) Energetics of TCA cycle.
- f) Write a note on ketone bodies.
- g) Explain in brief Transcription.

Q6) Attempt any two of the following: **[10]**

- a) Glycogenesis
- b) Transamination
- c) Gluconeogenesis
- d) Write in detail about Structure and Biochemical Functions of Vit.B₆

