

PHARMACEUTICAL BIOCHEMISTRY

Time: 3 hours

Max. Marks: 70

PART - A

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- (a) Write in brief on fatty acids present in cell membrane.
 - (b) Write short note on biological significance of acetyl CoA.
 - (c) Define apoenzyme.
 - (d) Write in brief on enzyme activators.
 - (e) Write in brief on factors effecting glycolysis.
 - (f) What is diabetes?
 - (g) What are transamination reactions?
 - (h) Explain the terms ureotelic and uricotelic.
 - (i) Define the terms VLDL and LDL.
 - (j) Write the methods used for estimation of glucose.

PART - B

(Answer all five units, 5 X 10 = 50 Marks)

UNIT - I

- 2 Write short notes on:
- (a) Energetics of oxidative phosphorylation.
 - (b) Ionic transporters in cell membrane.

OR

- 3 Describe in detail the production of ATP and its biological significance.

UNIT - II

- 4 (a) Explain the clinical applications of enzymes and co-enzymes.
(b) Explain the mechanism of enzyme action.

OR

- 5 Write in detail about enzyme kinetics.

UNIT - III

- 6 (a) Explain how energy is generated in glycolysis.
(b) Write short notes on Krebs cycle.

OR

- 7 (a) Write a note on significance of Cori cycle.
(b) Write about uronic acid pathway.

UNIT - IV

- 8 (a) Write a note on urea cycle.
(b) Explain the β -oxidation of fatty acids.

OR

- 9 Discuss the general metabolic pathway for amino acids.

UNIT - V

- 10 Write the principle involved in the qualitative and quantitative analysis of urine for Bile Salts and Ketone bodies.

OR

- 11 Discuss different laboratory investigations used to assess liver function.
