

B.Pharm I Year II Semester (R15) Regular & Supplementary Examinations June 2017

PHARMACEUTICAL BIOCHEMISTRY

Time: 3 hours

Max. Marks: 70

PART – A
(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- (a) What is the significance of potassium pump?
 - (b) Define redox potential.
 - (c) Define the term non-nucleotides.
 - (d) Write the methods of enzyme action.
 - (e) What is the significance of HMP pathway?
 - (f) What is aerobic and anaerobic reaction?
 - (g) Write short notes on basic amino acids.
 - (h) Explain the terms deamination and transamination.
 - (i) Write the composition of urine.
 - (j) Write the methods used for estimation of creatinine.

PART – B
(Answer all five units, 5 X 10 = 50 Marks)**UNIT – I**

- 2 Write short notes on the following:

- (a) Oxidative phosphorylation.
- (b) Concept of free energy.

OR

- 3 Describe in detail about biochemical organization of cell.

UNIT – II

- 4
- (a) Explain the clinical applications of vitamins.
 - (b) Explain the mechanisms of enzyme action.

OR

- 5 Write in detail about enzyme inhibition.

UNIT – III

- 6 Explain in detail about citric acid pathway.

OR

- 7
- (a) Write a note on significance of Krebs cycle.
 - (b) Write about gluconeogenesis pathway.

UNIT – IV

- 8
- (a) Discuss the role of deamination reactions in amino acid metabolism.
 - (b) Explain the α – oxidation of fatty acids.

OR

- 9 Discuss in detail about the structure of proteins.

UNIT – V

- 10 Write the principle involved in the qualitative and quantitative analysis of abnormal constituents of urine.

OR

- 11 Discuss the different laboratory investigations used to assess kidney function.