

Code: 13R00403

B.Pharm II Year II Semester (R13) Supplementary Examinations December 2016
PHARMACEUTICAL BIOCHEMISTRY

Time: 3 hours

Max. Marks: 70

PART – A
(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- Write biological significance of ATP.
 - Explain the significance of ETC.
 - Write clinical importance of enzymes.
 - Explain about Nucleotides.
 - What is gluconeogenesis?
 - Write about Deamination.
 - Write short notes on Ketone bodies.
 - Write decarboxylation of amino acids.
 - Write normal values of glucose & urea in urine.
 - What is glycolysis?

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

UNIT – I

- 2 Discuss in detail about E.T.C mechanism.

OR

- 3 Discuss in detail about the following:
- Osmoregulation.
 - Haestasis.
 - Free energy.

UNIT – II

- 4 (a) Write about various types of RNA and add a note on their biological functions.
(b) Write a note on mechanism of action of enzymes.

OR

- 5 List out the fat soluble vitamins, give their structure and mention their biological functions.

UNIT – III

- 6 Explain about H M P and add a brief note on its biological significance.

OR

- 7 Write in detail about glycolysis of anaerobic pathway and add a note on its energetic.

UNIT – IV

- 8 (a) Write about the biosynthetic pathway of Pyrimidines.
(b) Explain the metabolism of Tyrosine.

OR

- 9 (a) Explain about urea cycle and mention its significance.
(b) Write the metabolism of Valine.

UNIT – V

- 10 List out various kidney function tests and explain them in detail.

OR

- 11 What are the normal values of biochemical parameters of urine? Write their abnormal values and their significance.
