

Code: 15R00203

**R15**

B.Pharm I Year II Semester (R15) 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)
- Define Coenzymes and give examples.
  - Write deficiency diseases of Vit D and Niacin.
  - Define a cell. Mention its functions.
  - What is the significance of HMP Shunt Pathway?
  - Define transamination.
  - Write normal range of serum HDL and significance.
  - Classify amino acids.
  - Differentiate between active and passive transport.
  - Define glycogenolysis and glycolysis.
  - Explain kidney function tests.

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

- 2 (a) Describe the molecular constituents of biological membrane.  
(b) Explain the role of respiratory chain in energy capture.

**OR**

- 3 Give a brief account on different transport across biomembranes.

**UNIT – II**

- 4 What are co-enzymes? Describe their biochemical role and mechanism.

**OR**

- 5 Discuss the enzyme kinetics with a note on Michaelis Menten equation.

**UNIT – III**

- 6 Describe Glycolysis with its energetics.

**OR**

- 7 Briefly describe the Krebs cycle and Cori cycle.

**UNIT – IV**

- 8 What are lipids? Explain the beta oxidation of lipids.

**OR**

- 9 What are proteins? Classify them with examples. Describe the biosynthesis of proteins.

**UNIT – V**

- 10 Explain the normal values of the biochemical parameters of blood.

**OR**

- 11 List out the liver function tests and explain about one.

\*\*\*\*\*