

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)

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- 1 Answer the following: (10 X 02 = 20 Marks)
- (a) Define Coenzymes and give examples.
  - (b) Write deficiency diseases of Vit D and Niacin.
  - (c) Define a cell. Mention its functions.
  - (d) What is the significance of HMP Shunt Pathway?
  - (e) Define transamination.
  - (f) Write normal range of serum HDL and significance.
  - (g) Classify amino acids.
  - (h) Differentiate between active and passive transport.
  - (i) Define glycogenolysis and glycolysis.
  - (j) 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.

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