

Code: 13R00403

B.Pharm IV Year II Semester (R13) Regular Examinations April 2017

**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) Write the functions of mitochondria present in the cell.
  - (b) What is haemostasis?
  - (c) What are coenzymes? Give examples.
  - (d) Write the functions of DNA.
  - (e) Write the significance of HMP pathway.
  - (f) Write the significance of uronic acid pathway.
  - (g) Write the disorders of lipid metabolism.
  - (h) Write transamination with examples.
  - (i) Write the importance of OGTT.
  - (j) Write the principle involved in the estimation of serum creatinine.

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

- 2 Write the production of ATP and its biological significance.

**OR**

- 3 (a) Explain oxidative phosphorylation.  
(b) Write a note on transport process.

**UNIT – II**

- 4 Write the factors effecting enzyme action.

**OR**

- 5 Write the clinical importance of enzymes in treatment and diagnosis.

**UNIT – III**

- 6 Write the citric acid cycle and calculate the energy produced in it.

**OR**

- 7 Explain gluconeogenesis and glycogenolysis.

**UNIT – IV**

- 8 Write the biosynthesis of cholesterol.

**OR**

- 9 Write about urea cycle in detail.

**UNIT – V**

- 10 Mention the tests conducted in LFT. Give the principles involved in them.

**OR**

- 11 Write the biological significance of sodium and calcium.

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