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## B.Pharm IV Year II Semester (R13) Regular & Supplementary Examinations April 2018

## 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 redox potential.
  - (b) Name different types of jaundice.
  - (c) Name four metabolic disorders of urea cycle with enzyme defect.
  - (d) Define K<sub>m</sub> value and write its significance.
  - (e) What is fatty liver?
  - (f) What are triglycerides?
  - (g) Define enzyme repression.
  - (h) What is the importance of SGPT and SGOT?
  - (i) What is translation and transcription?
  - (j) What are Okazaki fragments?

## PART - B

(Answer all five units,  $5 \times 10 = 50 \text{ Marks}$ )

UNIT – I

2 List out energy rich compounds and explain in detail with biological significance.

OR

3 Describe the components of ETC. Explain chemiosmotic theory of oxidative phosphorylation.

[ UNIT – II ]

What are isoenzymes? Describe their diagnostic applications. Explain biochemical role and deficiency symptoms of niacin.

OR

5 Define enzyme inhibition and discuss different types of enzyme inhibitions.

( UNIT – III )

6 Explain the reaction sequences, significance and energetics of TCA cycle.

OR

7 Explain reactions of HMP pathway with its significance.

UNIT – IV

8 Name aromatic amino acids. Explain the catabolism of any one aromatic amino acid.

OR

9 Explain the de novo biosynthesis of fatty acids.

[ UNIT – V ]

List out different kidney function tests Explain any two of them. Write a note on urinary tract calculi.

OR

11 Enlist different liver function tests. Explain the tests for hepatic dysfunction.

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