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**B.Pharm
BP203T**

2nd Semester Regular Examination 2017-18

BIOCHEMISTRY – THEORY

BRANCH : B.Pharma

Time : 3 Hours

Max Marks : 75

Q.CODE : C797

Answer Question No.1 (Part-A) and 02 (Part-B) which are compulsory and any two from Part-C.

The figures in the right hand margin indicate marks.

Answer all parts of a question at a place.

Part- A

Q1 Objective Answer Type Questions (Answer All) : (2 x 10)

- a) What is redox potential? Mention its significance.
- b) What is Gluconeogenesis? Mention its substrate.
- c) What is transcription?
- d) What is energy rich compound? Classify it with suitable examples.
- e) Distinguish between DNA and RNA.
- f) What is hypercholesterolemia? Mention its causes.
- g) Write down any two therapeutic application of enzyme.
- h) Write down the significance of HMP Pathway.
- i) Define Km. Write its significance.
- j) Distinguish between oxidative phosphorylation and substrate level phosphorylation.

Part- B

Q2 Focused-Short Answer Type Questions (Answer Any Seven) : (5 x 7)

- a) Write notes on Diabetes mellitus
- b) Write notes on Translation.
- c) Write down about β -Oxidation of Fatty acids.
- d) Write notes on Glycogenesis.
- e) Describe the Urea cycle.
- f) Write down about Competitive Enzyme Inhibition.
- g) Give a notes on ETC.
- h) Define Carbohydrate. Classify it and mention the biological importance of it.
- i) Write down the synthesis of 5 HT and mention its significance.

Part-C

Long Answer Type Questions (Answer Any Two)

- Q3** Describe the reactions of Citric acid cycle. Mention its significance and energetic. **(10)**
- Q4** Write down the catabolism of Phenylalanine and Tyrosine and mention its disorders. **(10)**
- Q5** Write down the catabolism of Purine nucleotide and mention the disorders related to it. **(10)**
- Q6** Define enzyme. Classify it with suitable examples. Discuss the factors affecting the enzyme activity. **(10)**