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B.Pharmacy IV Semester

Examination, June 2016

Pharmaceutical Chemistry-V (Biochemistry)

Time: Three Hours

Maximum Marks: 70

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Note: i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.

- ii) All parts of each questions are to be attempted at one place.
- iii) All questions carry equal marks, out of which part A and B (Max.50 words) carry 2 marks, part C (Max.100 words) carry 3 marks, part D (Max.400 words) carry 7 marks.
- iv) Except numericals, Derivation, Design and Drawing etc.
- Define Nitrogen Fixation. 1. a)
 - Explain Iso-enzymes with examples.
 - Explain the concept of free energy with its biological significance.
 - Define briefly the Polymerase chain reaction.

OR

Discuss in detail the citric acid cycle.

- Explain the Beta Oxidation and its mechanism. 2. a)
 - Discuss the mechanism of Enzyme Inhibitions.
 - Differentiate between Gluconeogenesis and Glycogenolysis.
 - Discuss in detail the Nitrogen cycle with reactions.

OR

OR
Write short note on vitamins as coenzymes with its pharmaceutical significance.

What is Genetic code?

- Explain chemical Mutagenesis.
- Explain the mechanism of metabolism of Galactose.
- Discuss in detail the Urea Cycle.

OR

Discuss in detail the biosynthesis of Purine and Pyrimidines.

- What are Amino acids? Enumerates its significance.
 - Enlist the Two application of Metal as coenzymes.
 - Differentiate between Eicosanoids and Sphingolipids.
 - Describe various test and strategies for detection of metabolic disorders.

OR

Describe the replication mechanism of DNA.

- What is Redox Potentials?
 - Enlist the two advantage of Ammonia Assimilation.
 - Discuss the biosynthesis of Ketone bodies.
 - Discuss in detail the Biosynthesis of RNA with biological significance.

OR

Write a note on biosynthesis and Catabolism of Amino acids.

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