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Total No. of Questions: 8]

[Total No. of Printed Pages: 2

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## PY-305

## B.Pharm., III Semester

Examination, December 2016

## Choice Based Credit System (CBCS) Biochemistry

Time: Three Hours

Maximum Marks: 60

Note: i) Attempt any five questions.

- ii) All questions carry equal marks.
- Describe the reaction sequence, significance and energetics of Citric Acid Cycle.
- Describe the reaction sequence, significance and energetic of Embden-Meyerhof Pathway.
- Describe the Krebs-Henseleit cycle and add a note on metabolic disorders associated with it. Discuss the metabolic disorder associated with phenylalanine.
- What are Enzymes? Discuss the important factors influence the velocity of the enzyme reaction. Add a note on enzyme kinetics.
- Describe the β oxidation of fatty acid and write the disorders associated with it. Discuss the biological significance of cholesterol.
- Describe the biosynthesis of Purine nucleotides. Add a note on DNA replication.

PY-305 PTO

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[2]

- Describe the mechanism of Oxidative phosphorylation.
  Discuss the inhibitors of ETC and Oxidative phosphorylation.
- 8. Write notes on (any two):
  - a) Protein Synthesis
  - b) Conversion of cholesterol into bile acids and hormone

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c) Classification and biological role of Carbohydrates

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