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BP-203 T

B.Pharm., II Semester (PCI Scheme)

Examination, June 2017

Choice Based Credit System (CBCS)

Bio-Chemistry

Time : Three Hours

Maximum Marks : 60

- Note: i) Attempt any five questions.
ii) All questions carry equal marks.

1. What are enzyme induction and repression, allosteric regulation? Give suitable examples and support your answer with diagrams. Write a note on Michaelis plot.
2. Describe the nomenclature and IUB classification of enzymes. Discuss therapeutic application of enzymes and isoenzymes.
3. Distinguish between:
 - a) Structure of DNA and RNA
 - b) Transcription and translation
 - c) Nucleoside and nucleotide
 - d) Genetic code and genome
4. What is transamination and deamination of amino acids? Give examples in support of your answer. Write the reaction pathway of urea synthesis.

5. Describe in details the biological significance of melatonin, dopamine and adrenaline.

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6. Write short notes on the following:
 - a) HMP shunt
 - b) Gluconeogenesis
 - c) Regulation of blood glucose
7. What are endergonic and exergonic reactions? Discuss the relationship between free energy, enthalpy and entropy.
8. Discuss the process of de novo synthesis of fatty acid. How this pathway is regulated?

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