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**B. Pharmacy (Fourth Semester)
EXAMINATION, April-May, 2015
(New Scheme)**

PHARMACEUTICAL BIOCHEMISTRY

Time : Three Hours]

[Maximum Marks : 70

Note : Attempt any *five* questions. All questions carry equal marks.

1. Give the reaction and energetics of Pentose Phosphate pathway. 14
2. Explain in brief biochemical organization of the cell and transport process across cell membrane. 14
3. Classify enzymes. Describe the factors affecting enzyme action. Write the enzyme kinetics and its mechanism of action. CSVTUonline.com 14
4. Write the biosynthesis of ketone bodies and prostaglandins. 14
5. Write a detailed note on co-enzymes and its significance. 14

6. What are nucleic acids ? Discuss the physical and chemical mutagenesis. 14
7. Write short notes on any *two* of the following : 7 each
 - (a) Polymerase chain reaction
 - (b) Citric acid cycle
 - (c) Principle of biological oxidation and detoxification mechanism

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