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**B. Pharmacy (Fourth Semester) Examination,  
April-May 2016**

(New Scheme)

(Pharmacy Branch)

**PHARMACEUTICAL BIOCHEMISTRY**

*Time Allowed : Three hours*

*Maximum Marks : 70*

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

1. (a) Describe transport processes across the cell membrane. 7

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- (b) What do you understand by free energy? Determine changes in free energy from equilibrium constant and reduction potential? CSVTUonline.com 7

2. (a) Discuss different factors affecting enzyme action? 7  
(b) Enumerate the role of enzyme and coenzyme in clinical diagnosis? 7
3. (a) Define Gluconeogenesis, and glycolysis? 4  
(b) Write reactions and energetic of citric acid cycle? 10
4. Discuss biosynthesis of ketone bodies and their utilization? 14
5. Write short notes on : (any two) 2×7  
(a) Mutation CSVTUonline.com  
(b) DNA repair mechanism  
(c) Polymerase Chain Reaction
6. Discuss Biosynthesis of DNA and its replication. 14
7. Describe the role of vitamins and metals as coenzyme and their significance. CSVTUonline.com 14