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**B. Pharmacy (Fourth Semester) Examination,
Nov.-Dec. 2017**

(New Scheme)

(Pharmacy Branch)

PHARMACEUTICAL BIOCHEMISTRY

Time Allowed : Three hours

Maximum Marks : 70

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

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1. Give the structure of cell membrane. Discuss the mechanism of transport across the cell membrane with suitable example. 14

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2. Write the significance, biochemical reaction and regulation of TCA cycle. 14

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3. What is Lipid? Explain the biochemical process for synthesis of saturated fatty acids in detail with regulation. 14
4. What are enzymes? Discuss the kinetics of enzyme activity and other factors affecting enzyme action. 14
5. (a) What is mutation? Give the different mode of mutation of genes. 7
- (b) Discuss the process and application of polymeres chain reaction. 7
6. What is replication? Explain the pre-requisites and steps involve replication with suitable diagram. 14
7. Write short notes on : (any two) 2×7=14
- (a) Transcription
- (b) Eicosanoids
- (c) Coenzymes
- (d) Detoxification
- (e) Gluconeogenesis