

Roll No.....53

Total No. of Questions : 10]

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PHM-3.5.1
PHARMACEUTICAL
CHEMISTRY-V
(Biochemistry)

(B.Pharmacy, 5th Semester, 2123)

Time : 3 Hours

Maximum Marks : 80

Note :- This paper consists of Three Sections. Section A is compulsory. Attempt any *Four* questions from Section B and any *Three* questions from Section C.

Section-A Marks : 2 Each

1. (a) From where does energy required to lower activation energy in enzyme catalysed reaction comes ?

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- (b) What is the difference between homotropic and heterotropic allosteric enzymes ?
- (c) Which enzyme catalyse the rearrangement of L-methylmalonyl-CoA to succinyl-CoA ?
Name the co-enzyme involved.
- (d) Give the biological significance of GLUT.
- (e) What are the causes and characteristics of Cori's disease ?
- (f) What are the characteristics and causes of Tarni's disease ?
- (g) How does fluoroacetate act as poison ?
- (h) What do you mean by PCR and Point mutation ?
- (i) What do you mean by prochiral compounds ? Explain with examples.
- (j) What is the role of Acetyl-CoA carboxylase in regulation of Lipogenesis ?

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- (k) What is the cause of Jamaican vomiting sickness ?
- (l) Explain the terms ureotelic, uricotelic and ammonotelic.
- (m) Explain the terms finger printing and foot printing.
- (n) Give the structure of Cholecalciferol.
- (o) Name different processes involved in solute migration across cell membrane.

Section-B Marks : 5 Each

- 2. Write a note on kinetics of enzyme catalyzed reactions.
- 3. Write a note on biosynthesis of amino acids.
- 4. Write a short note on citric acid cycle.
- 5. Explain with structures the intramolecular rearrangement involved in conversion of L-methylmalonyl-CoA to succinyl CoA.
- 6. Write a short note on Fermentation.

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Section-C Marks : 10 Each

7. Write a note on Fatty acid oxidation. ✓
8. Write a note on purine nucleotide biosynthesis.
Explain how glutamine analogs block it.
9. What is the fate of glucose in the body ? ✓
10. Differentiate between :
 - (a) Cystinuria, Cystinosis and
 Homocystinurias
 - (b) Tyrosinosis, Tyrosinemia and Alkaptonuria.

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