

66

(i) Printed Pages : 3

Roll No.

(ii) Questions : 9

Sub. Code :

1	0	5	2	9
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Exam. Code :

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NEP U.G. Common-Inter Disciplinary Course

2nd Semester

(2056)

BIOCHEMISTRY

Paper : Fundamentals of Enzymology

Time Allowed : 3 Hours]

[Maximum Marks : 40

Note :- Attempt five questions in all; selecting at least one question is compulsory from each Section. Question No. 1 is compulsory.

1. Give the answer of following questions in very brief :

I. What is the cofactor?

II. Write names of two coenzymes.

III. What is Apoenzyme?

IV. Write names of two allosteric enzymes.

V. What is the abzyme?

VI. What is NAD⁺?

VII. Define enzyme activity unit.

VIII. What is an active site?

8×1=8

SECTION—I

2. (a) What are general characteristics of enzymes?
(b) Write short note on IUB classification. 4,4
3. (a) What is the NAD? Also give name of NAD-containing enzymes.
(b) What is an active centre? Write the functions of active center. 4,4

SECTION—II

4. (a) Write various differences between inorganic and biocatalysts.
(b) Write the roles of metal ions in the enzyme catalysts. 4,4
5. (a) What is PDH complex? Write its functions.
(b) Write the acid base catalysis mechanism for enzymes. 4,4

SECTION—III

6. (a) What is the enzyme kinetics?
(b) What is effect of pH on enzyme activity? 4,4
7. (a) Write a short note on enzyme inhibitors.
(b) What is the allosteric enzyme? How allosteric enzymes are different from monomeric enzymes? 4,4

SECTION—IV

8. (a) Write the various applications of enzymes.
- (b) What is purification of enzymes? 4,4
9. (a) Write a short note on antibodies catalysis.
- (b) What are clinical applications of enzymes? 4,4