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Class –B.Sc. BT (II)yr

Subject – Enzymology.

Paper – BT-8

Time Allowed : 3 hrs.

Maximum Marks : 40

SECTION- A

All questions are compulsory. Each question will carry one mark. Maximum length of answer can be about 1/3 of a page. (1×8)

1. (i) Ligase
- (ii) Activation Energy
- (iii) Holoenzyme
- (iv) Catalytic Efficiency
- (v) V_{max}
- (vi) Allosteric site
- (vii) Law of thermodynamics
- (viii) Catalysis

SECTION- B

5 questions to be attempted and maximum length of answer can be upto two pages. Each question carries 4 marks. (5×4=20)

2. Discuss nomenclature and classification of enzymes.
3. Write notes on covalent catalysis and acid base catalysis.
4. Briefly write about enzyme characteristics.

5. What are co-enzymes? Write about three co-enzymes to explain their functions.
6. Explain Strain distortion theory of enzymes.
7. Describe LineWeaver-Burk plot and its use.
8. Write about active site and functional groups identifying the same.
9. Briefly explain about the principles of Bio-energetics.

SECTION- C

Two questions to be attempted. Each question carries 6 marks. Maximum length of 5 pages to be written.

(6×2=12)

10. Derive Michaelis-Menton Equation. Explain its modification also.
11. Describe in detail Enzyme-substrate complex.
12. (a) Explain Enzyme Specificity.
(b) What are co-factors?
(c) Importance of co-enzymes and prosthetic group.
13. What are factors affecting enzyme activity? Give detailed account of any three of these factors.
