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Exam. Code : 107404
Subject Code : 2248

B.Sc. Bio-Technology Semester—IV

ENZYMOLOGY

Paper–BT-8

Time Allowed—3 Hours] [Maximum Marks—40

Section A : Attempt **ALL** questions from this Section.

1. Define the following in not more than **five** lines :
   (a) Specific activity
   (b) Hydrolase
   (c) International unit of enzyme activity
   (d) Holoenzyme
   (e) Zymogen
   (f) Isozyme
   (g) Activation energy
   (h) Km. 1×8=8

Section B : Attempt any **FIVE** questions from this Section.

2. What is the difference between co-enzyme and co-factor ? Explain using example.
3. Explain multi enzyme complexes with example.
4. Explain the importance of temperature and pH in enzyme activity.
5. Discuss briefly allosteric enzymes.

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6. What are the different factors that affect velocity of enzyme catalyzed reactions ?
7. What is Lineweaver Burk plot.
8. What is Inhibitor ? Explain with suitable example.
9. What is activation energy ? How does the activation energy changes in the presence and absence of enzymes ? 4×5=20

Section C : Attempt any **TWO** questions.

10. Explain feedback inhibition.
11. Derive Michaelis Menten equation and draw Hanes plot for this.
12. What are enzymes and how are they classified ? Explain with suitable examples.
13. Explain the enzyme-substrate complex reaction. Justify your answer giving one suitable example. 6×2=12

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