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Exam. Code : 107404 Subject Code : 2148

B.Sc. (Bio-Technology) Semester—IV ENZYMOLOGY

Paper-BT-8

Time Al'owed—3 Hours] [Maximum Marks—40 SECTION—A

Note :- Attempt all questions from this section. 1×8=8

- 1. Define the following in not more than *five* lines each :
 - (a) Apoenzyme
 - (b) Rate of reaction
 - (c) Allosteric enzyme
 - (d) Ribozyme
- (e) Uncompetitive inhibitor
 - (f) Feedback inhibition
- (g) Lyase loser second and loser
- (h) Thermodynamic equilibrium.

SECTION-B

Note :- Attempt any *five* questions from this sectior.

4×5=20

- 2. Classify enzymes based on their mechanism of action.
- 3. Explain lock and key model of enzyme specificity.

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- 4. Give the functions of enzyme in any biochemical reaction.
- 5. List four ways in which enzyme activity is generally regulated and give an example of each.
- 6. Voltat are isozymes? Support your answer with suitable exclusion.
- 7. What is activation energy ? How does the activation energy change in the presence and absence of enzymes ?
- 8. Differentiate between active and allosteric site.
- 9. Explain acid base catalysis with suitable diagram(s).

SECTION-C

Note :-- Attempt any two questions 6×2=12

- 10. What are co-enzymes ? Define their role in enzyme action.
- 11. Explain ping-pong enzyme mechanism with example.
- What is mixed inhibition ? Explain the effect of such inhibitor an enzyme velocity.
- 13. Describe in detail the industrial application of enzyries.

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