

SYBSC PAPER 1. UNIT 1 ENZYMOLOGY

1. Explain the IUB nomenclature of enzymes.
2. What are enzymes? Describe their classification of enzymes.
3. Write a short note on competitive inhibition.
4. Why LB plot is better than MM plot.
5. Write an account of the various factors affecting on enzyme activity.
6. Explain the lock and key model of enzymes.
7. Describe how the temperature and ph affects on enzyme activity.
8. Justify: Enzymes exhibits high specificities.
9. Define active site and mention its characteristics.
10. Mention enzyme specificity models.
11. Write a note on reversible inhibition.
12. Compare and contrast between competitive and non competitive inhibitors.
13. Derive the michaelis-menton derivation.
14. What is the relationship between km value and enzyme and substrate affinity

Define.

1. Coenzyme
2. Holoenzyme
3. Allosteric enzyme
4. Km value
5. Prosthetic group
6. Enzyme inhibitor
7. Turnover number
8. Katal

TURNOVER NUMBER

In enzymology, **turnover number** (also termed k_{cat}) is defined as the maximum **number** of chemical conversions of substrate molecules per second that a single catalytic site will execute for a given **enzyme** concentration .