

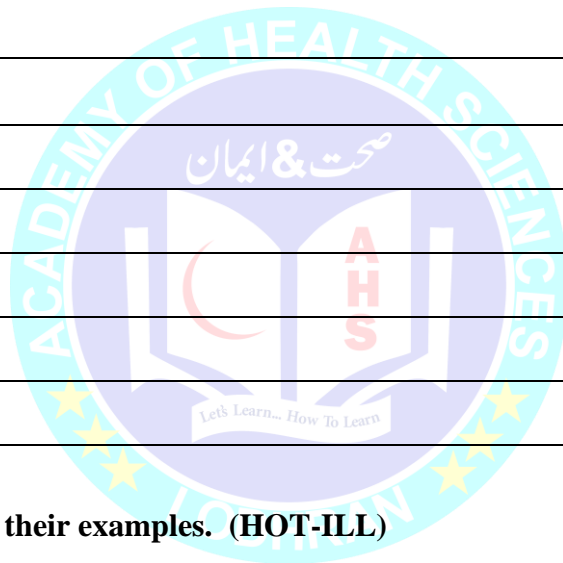
1. Define enzymes

2. Define the following terms regarding enzymes

Apoenzyme	
Holoenzyme	
Prosthetic group	
Coenzyme	
Cofactor	
Activator	
Active site	
Substrate	
Maximal velocity	
Michaelis constant	
Allosteric enzymes	
Isoenzymes	

3. Classify the enzymes with their examples. (HOT-ILL)

- i. Ligases
- ii. Lyases
- iii. Isomerases
- iv. Transferases
- v. Oxidoreductases
 - a. Oxygenases
 - b. Dehydrogenases
 - c. Reductases
 - d. Oxidases
- vi. Hydrolases



4. Describe the factors affecting enzymatic activity.

- i. Substrate concentration
- ii. Product concentration
- iii. Enzymes con.
- iv. pH
- v. Temperature
- vi. Inhibitors
- vii. Time
- viii. Activators
- ix. Others

5. Write down the enzymes of clinical importance

- i. ALT / sGPT
- ii. AST/ sGPT
- iii. ALP
- iv. GGT
- v. LDH with its subtypes
- vi. CPK with its subtypes
- vii. ICD
- viii. Amylase
- ix. Others



6. Explain Oxidoreductases and hydrolases in detail.

7. Discuss enzymes inhibitors with examples.