

PGCET--BOTANY---PRACTICE BITS ON “ENZYMES”

1. Find out the mis match

Ans-3

- 1) Carbonic anhydrase - Zn
- 2) Hexokinase-Mg
- 3) IAA synthetase-Mn
- 4) Nitrate reductase-Mo

2. Which one is not a co-enzyme?

Ans-4

- 1) NAD 2) Co-A 3) FAD 4) Haeme

3. Find out the correct statement

Ans-1

- 1) The metal ion which is tightly bound to the apoenzyme is called metal ion cofactor
- 2) The Organic co-factor which is loosely bound to the apoenzyme is called prosthetic group
- 3) The Organic co-factor which is tightly bound to the apoenzyme is called co-enzyme
- 4) The co-factor which is loosely bound to the apoenzyme is called inorganic cofactor.

4. Active site of an enzyme is due to its

Ans-3

- 1) Primary structure 2) secondary structure
3) Tertiary structure 4) All of these

5. The fastest enzyme is

Ans-3

- 1) Urease 2) Catalase 3) Carbonic anhydrase 4) Lysozyme

6. An enzyme accelerates a biochemical reaction by

Ans-2

- 1) Increasing substrate movements
- 2) Lowering the energy of activation
- 3) Changing free enzyme
- 4) Conversion of products

7. At temperature near freezing point, the enzymes are

Ans-3

- 1) Denatured 2) Slightly activated 3) Inactivated 4) All of these

8. Lock & key model of enzyme activity explains which property of Enzymes

Ans-2

- 1) Reversibility 2) Specificity 3) Thermolability 4) PH sensitivity

9. Chemical nature of most of the co-enzymes is

Ans-2

- 1) Vitamins 2) Nucleotide 3) Protein 4) Hormone

10) which of the following co-factor acts as both co-enzyme & Prosthetic Group? **Ans-3**

- 1) Co-A 2) NADP 3) FMN 4) NADP

11. A non-proteinaceous enzyme is **Ans-1**

- 1) RN ase 2) DN ase 3) E Co RI 4) Lysozyme

12. An allosteric inhibitor of the enzyme acts by binding to the **Ans-4**

- 1) substrate 2) product 3) catalytic site of the enzyme
4) Non-catalytic site of the enzyme

13. An organic non-protein co-factor which is easily separable from the holoenzyme is called **Ans-3**

- 1) Apoenzyme 2) Prosthetic group 3) coenzyme 4) co-factor

14) Allosteric inhibition can be prevented by **Ans-3**

- 1) Increasing the concentration of substrate
2) Increasing the concentration of product
3) Decreasing the concentration of product
4) Decreasing the concentration of substrate

15. Protein digesting other proteins belong to **Ans-3**

- 1) Oxido-reductases 2) Lyases 3) Hydrolases 4) Ligases

16. Conversion of substrate to product is associated with change in the structure but not in molecular weight is called **Ans-3**

- 1) Cleavage 2) Oxidation 3) Isomerisation 4) Reduction

17. A pair of inhibitors which do not bind to active sites are **Ans-2**

- A) Competitive B) Non-competitive C) Feed back
1) A & B 2) B & C 3) A & C 4) None of these

18. The enzyme with lowest TON is **Ans-3**

- 1) Carbonic anhydrase 2) Urease 3) Lysozyme 4) Catalase

19) A lower km value indicates **Ans-1**

- 1) Enzymes have high affinity for substrates
2) Enzymes have low affinity for substrates
3) Enzymes have low TON 4) Both 1 & 3

- 20. Enzyme code for glucose-6-phospho transferase is** **Ans-4**
1) 2.1.7.2 2) 2. 7. 2. 1 3) 2.1.2.7 4) 2.7.1.2
- 21. Lysozyme belongs to the class** **Ans-3**
1) 1 2) 2 3) 3 4) 4
- 22. Active site of an enzyme is due to its** **Ans- 3**
1) Primary structure 2) secondary structure
3) Tertiary structure 4) All of these
- 23. Co-enzymes NAD & FAD participates in** **Ans-1**
1) Oxidation reactions 2) Hydration reactions
3) Phosphorylation reactions 4) Dehydration reactions
- 24) Michaelis-Menten constant of an enzyme is substrate concentration at which the reaction attains** **Ans-2**
1) its maximum velocity 2) half its maximum velocity
3) double its maximum velocity 4) its normal velocity
- 25. Find out the mismatch** **Ans-3**
1) FAD---Riboflavin 2) NAD ---Niacin 3) TPP----Thymine
4) Co-A---Pantothenic acid
- 26. Which is true about enzymes** **Ans-2**
A) All enzymes are proteins C) All Ribozymes are enzymes
B) All proteins are enzymes D) All enzymes are Ribozymes
- 27. Which of the following is not a simple enzyme?** **Ans-1**
1) Hexokinase 2) Pepsin 3) Trypsin 4) Amylase
- 28. Enzymes with same function but differ in molecular structure are** **Ans-4**
Known as
1) Isomerases 2) Abzymes 3) Zymogens 4) Isozymes
- 29. Competitive inhibitor resembles** **Ans- 3**
1) Active site 2) Product 3) Substrate 4) Enzyme
- 30. The enzymes which digest other enzymes are** **Ans-1**
1) Proteases 2) Nucleases 3) Lyases 4) Ligases

All The Best

**By
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