

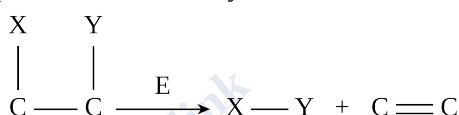
NEET BIOMOLECULES (BIOLOGY) — ENZYME CLASSIFICATION, NOMENCLATURE AND COFACTORS — PYQS

Max. Marks: 60

Questions: 15

Section A (MCQ) — 15 questions

- Q.1** The following reaction depicts the activity of a particular class of enzymes :



(Substrate) (Product) (Product)

Identify the enzyme class 'E' from the following options : [NEET (UG) 2026]

- (1) Isomerases (2) Ligases
(3) Transferases (4) Lyases

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- Q.2** The protein portion of an enzyme is called:

[NEET (UG) 2025]

- (1) Apoenzyme (2) Prosthetic group
(3) Cofactor (4) Coenzyme

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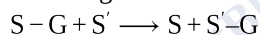
- Q.3** Which one of the following enzymes contains 'Haem' as the prosthetic group? [NEET (UG) 2025]

- (1) Succinate dehydrogenase
(2) Catalase
(3) RuBisCO
(4) Carbonic anhydrase

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- Q.4** Name the class of enzyme that usually catalyses the following reaction :



Where, G $\longrightarrow$ a group other than hydrogen

S $\longrightarrow$ a substrate

S' $\longrightarrow$ another substrate

[NEET (UG) 2025]

- (1) Transferase (2) Ligase
(3) Hydrolase (4) Lyase

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- Q.5** The cofactor of the enzyme carboxypeptidase is:

[NEET (UG) 2024]

- (1) Zinc (2) Niacin (3) Flavin (4) Haem

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- Q.6** Ligases is a class of enzymes responsible for catalysing the linking together of two compounds. Which of the following bonds is not catalysed by it?

[RE-NEET (UG) 2024]

- (1) C – C (2) P – O (3) C – O (4) C – N

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- Q.7** Enzymes that catalyse the removal of groups from substrates by mechanisms other than hydrolysis leaving double bonds, are known as :

[RE-NEET (UG) 2024]

- (1) Transferases (2) Oxidoreductases
(3) Dehydrogenases (4) Lyases

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- Q.8** In the enzyme which catalyses the breakdown of: $2\text{H}_2\text{O}_2 \longrightarrow 2\text{H}_2\text{O} + \text{O}_2$

the prosthetic group is : [NEET (UG) 2022 (Phase 2)]

- (1) Niacin
(2) Nicotinamide adenine dinucleotide
(3) Haem
(4) Zinc

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- Q.9** Consider the following statements:

A. Coenzyme or metal ion that is tightly bound to enzyme protein is called prosthetic group.

B. A complete catalytic active enzyme with its bound prosthetic group is called apoenzyme

Select the **correct** option

[NEET (UG) 2019]

- (1) Both A and B are false
(2) A is false but B is true
(3) Both A and B are true
(4) A is true but B is false

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Q.10 Which of the following statements is correct with reference to enzymes? [NEET 2017]

- (1) Holoenzyme = Apoenzyme + Coenzyme
- (2) Coenzyme = Apoenzyme + Holoenzyme
- (3) Holoenzyme = Coenzyme + Co-factor
- (4) Apoenzyme = Holoenzyme + Coenzyme

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Q.11 The essential chemical components of many coenzymes are [NEET 2013]

- (1) carbohydrates (2) vitamins
- (3) proteins (4) nucleic acids.

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Q.12 For its activity, carboxypeptidase requires

[AIPMT 2012 (Mains)]

- (1) Zinc (2) iron (3) niacin (4) copper

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Q.13 An organic substance bound to an enzyme and essential for its activity is called [AIPMT 2006]

- (1) isoenzyme (2) coenzyme
- (3) holoenzyme (4) apoenzyme

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Q.14 With which one of the following enzymes is copper necessarily associated as an activator? [AIPMT 2004]

- (1) Carbonic anhydrase
- (2) Tryptophanase
- (3) Lactic dehydrogenase
- (4) Tyrosinase

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Q.15 The major role of minor elements inside living organisms is to act as [AIPMT 2003]

- (1) co-factors of enzymes
- (2) building blocks of important amino acids
- (3) constituent of hormones
- (4) binder of cell structure.

Scan or tap for the full solution



ANSWER KEY

Ques.	1	2	3	4	5	6	7	8	9	10	11
Ans.	4	1	2	1	1	1	4	3	4	1	2
Ques.	12	13	14	15							
Ans.	1	2	4	1							