Bio 303 Quiz# 02
Collected by Zabi Attariya



What is the general mechanism of an enzyme?

Select the correct option

- ○ It acts by increasing the pH
- ○ It acts by decreasing the pH
- ○ It acts by increasing the activation energy
- ◉ It acts by reducing the activation energy

Click to Save Answer &

Question # 2 of 8 (Start time: 07:24:37 AM, 23 August 2022) To

Kinases belong to _____ group of enzymes.

Select the correct option

- ○ Isomerases
- ○ Oxidoreductases
- ○ Ligases
- ◉ Transferases

Click to Save Answer & Move to Next Q

Question # 3 of 8 (Start time: 07:25:23 AM, 23 August 2022)

Total Marks

Which one of the following reactions is catalyzed by Phosphotransfrases?

Select the correct option

- Non-hydrolytic removal of a group from a substrate
- Change of molecular form of substrate
- Transfer of specific group from one substrate to another
- Hydrolysis of substrate

Click to Save Answer & Move to Next Question

Question # 4 of 8 (Start time: 07:26:56 AM, 23 August 2022)

Total Marks: 1

The transition state of a catalyzed reaction is

Select the correct option

- (●) higher in energy than that of an uncatalyzed reaction
- ( ) lower in energy than that of an uncatalyzed reaction
- ( ) a highly-populated intermediate on the reaction pathway
- ( ) lower in energy than the reaction substrate

Click to Save Answer & Move to Next Question

The transtion state of a catalyzed reaction is lower in energy than that of the uncatalyzed reaction because of enthalpic interactions between the enzyme and the transition state because of favorable interactions with the substrate_ because of a smaller delta $ between the [ES] and [ES"] complex because enzymes only work at low temperatures:

BIO303 - Biochemistry II (2nd quiz) Quiz Start Time: 07:22 AM, 23 August 2022

Question # 5 of 8 (Start time: 07:28:31 AM, 23 August 2022) Total Marks: 1

Decarboxylases belong to _____ group of enzymes.

Select the correct option

○	Oxidoreductases
○	Ligases
◉	Lyases
○	Isomerases

Click to Save Answer & Move to Next Question

Question # 6 of 8 (Start time: 07:29:44 AM, 23 August 2022)

A complex organic molecule or metallo-organic compound it is termed a _____

Select the correct option

- ○ Cofactor
- ◉ Coenzyme
- ○ Holo enzyme
- ○ Apoenzyme

Click to Save Answer & Move to Nex

Question # 7 of 8 (Start time: 07:30:28 AM, 23 August 2022) Total M

Digestive enzymes belong to _____ group of enzymes.

Select the correct option

- ○ Ligases
- ◉ Hydrolases
- ○ Isomerases
- ○ Oxidoreductases

Click to Save Answer & Move to Next Questio

Question # 8 of 8 (Start time: 07:31:04 AM, 23 August 2022)

RNAs make up ____ of the total RNA in the cell.

Select the correct option

- ○ 20%
- ◉ 80%
- ○ 5%
- ○ 50%

Click to Save Answer & Mov

BIO303 - Biochemistry II (2nd quiz) **Quiz Start Time:**

Question # 1 of 8 (Start time: 07:22:36 AM, 23 August 2022)

What is the general mechanism of an enzyme?

Select the correct option

- ○ It acts by increasing the pH
- ○ It acts by decreasing the pH
- ○ It acts by increasing the activation energy
- ● It acts by reducing the activation energy

Click to Save Answer &

BIO303 - Biochemistry II (2nd quiz)

Quiz Start Time: 07:32 AM, 23 August 2022

Question #1 of 8 (Start time: 07:32:33 AM, 23 August 2022)

Total Marks: 1

Induced fit serves to bring specific _____on the enzyme into the proper position to catalyze the reaction

Select the correct option

- (●) Functional groups
- ( ) Sulphide residues
- ( ) Enzyme
- ( ) Amino Acid

Click to Save Answer & Move to Next Question

Question # 2 of 8 (Start time: 07:33:29 AM, 23 August 2022) **Total Marks: 1**

Acceptor arm of tRNA is made up of unpaired sequences of _____ at the 3'end.

Select the correct option

- ○ Adenine-adenine-cytosine
- ◉ cytosine-cytosine-adenine
- ○ Adenine-adenine-Adenine
- ○ Adenine-cytosine-adenine

Click to Save Answer & Move to Next Question

Question # 3 of 8 (Start time: 07:34:08 AM, 23 August 2022) **Total Marks: 1**

During an enzyme-catalyzed reaction change in conformation when the substrate binds is induced by rearrangements of_____

Select the correct option

- ○ Hydrogen bond
- ◉ Covalent bond
- ○ Disulphide bond
- ○ Ionic bond

Click to Save Answer & Move to Next Question

BIO303 - Biochemistry II (2nd quiz)

Quiz Start Time: 07:32 AM, 23 August 2022

Question # 4 of 8 (Start time: 07:35:39 AM, 23 August 2022) **Total Marks: 1**

A _____binds at a site on the protein called the binding site

Select the correct option

- ○ Prostetic group
- ○ Enzyme
- ◉ Ligand
- ○ CO enzyme

Click to Save Answer & Move to Next Question

Question # 5 of 8 (Start time: 07:36:25 AM, 23 August 2022) **Total Marks: 1**

A catalyst increases the rate of a reaction by _____

Select the correct option

- ○ decreasing the concentration of the reactant(s)
- ○ increasing the concentration of reactant(s)
- ◉ decreasing the activation energy of the overall reaction
- ○ increasing the activation energy of the overall reaction

Click to Save Answer & Move to Next Question

BIO303 - Biochemistry II (2nd quiz)

Quiz Start Time: 07:32 AM, 23 August 2022

Question # 6 of 8 (Start time: 07:38:03 AM, 23 August 2022)

Total Marks: 1

Which one of the following reactions is catalyzed by Phosphotransfrases?

Select the correct option

○	Non-hydrolytic removal of a group from a substrate
○	Change of molecular form of substrate
◉	Transfer of specific group from one substrate to another
○	Hydrolysis of substrate

Click to Save Answer & Move to Next Question

BIO303 - Biochemistry II (2nd quiz)

Quiz Start Time: 07:32 AM, 23 August 2022

Question # 7 of 8 (Start time: 07:39:38 AM, 23 August 2022)

Total Marks: 1

Removal of phosphoryl groups is catalyzed by_____

Select the correct option

- (●) Protein phosphatases
- ( ) Dinitrogenase reductase
- ( ) Diphteria toxin and cholera toxin
- ( ) Protein kinases

Click to Save Answer & Move to Next Question

Question # 8 of 8 (Start time: 07:41:04 AM, 23 August 2022) T

What is the function of phosphorylase?

Select the correct option

- ○ Use H2O2 as the electron acceptor
- ○ Transfer a carboxylate group
- ◉ Transfer amino group
- ○ Transfer inorganic phosphate

Click to Save Answer & Move to Next

Question #1 of 8 (Start time: 07:44:49 AM, 23 August 2022) **Total Marks: 1**

Which one of the following acts as substrate for peptidases?

Select the correct option

- (●) Protein
- ( ) Lipid
- ( ) Carbohydrate
- ( ) Nucleic acid

Click to Save Answer & Move to Next Question

BIO303 - Biochemistry II (2nd quiz) Quiz Start Time: 07:44 AM, 23 August 2022

Question # 2 of 8 (Start time: 07:46:11 AM, 23 August 2022) Total Marks: 1

The free energy of the ground state of product is _____than that of substrate

Select the correct option

- (●) Lower
- ( ) Greater
- ( ) Different
- ( ) Equal

Click to Save Answer & Move to Next Question

Question # 3 of 8 (Start time: 07:46:45 AM, 23 August 2022) **Total Marks: 1**

Citric acid Synthetase belong to _____ group of enzymes.

Select the correct option

- (●) Ligases
- ( ) Lyases
- ( ) Oxidoreductases
- ( ) Isomerases

Click to Save Answer & Move to Next Question

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BIO303 - Biochemistry II (2nd quiz)

Quiz Start Time: 07:44 AM, 23 August 2022

Question # 4 of 8 (Start time: 07:47:32 AM, 23 August 2022)

Total Marks: 1

Which of the following enzymes catalyze oxidation-reduction reaction?

Select the correct option

◉	Oxidoreductases
○	Lyases
○	Transferases
○	Hydrolases

Click to Save Answer & Move to Next Question

Question # 5 of 8 (Start time: 07:47:54 AM, 23 August 2022) **Total Marks: 1**

Which of the following enzymes catalyze the transfer of hydrogen atoms from one substrate to another?

Select the correct option

- (●) Transferases
- ( ) Lyases
- ( ) Oxidoreductases
- ( ) Hydrolases

Click to Save Answer & Move to Next Question

Question # 6 of 8 (Start time: 07:48:14 AM, 23 August 2022)

Total Marks: 1

The starting point for either the forward or the reverse reaction is called the _____

Select the correct option

- (●) Ground state
- ( ) Activation stage
- ( ) lag state
- ( ) Log state

Click to Save Answer & Move to Next Question

Question # 7 of 8 (Start time: 07:48:34 AM, 23 August 2022) **Total Marks: 1**

The surface of the active site of enzyme is lined with _____ residues with side chains that complement and bind the substrate and catalyze its chemical transformation.

Select the correct option

- ○ Triglycerides
- ◉ amino acid
- ○ fatty acids
- ○ monosaccharides

Click to Save Answer & Move to Next Question

BIO303 - Biochemistry II (2nd quiz)

Quiz Start Time: 07:44 AM, 23 August 2022

Question # 8 of 8 (Start time: 07:49:43 AM, 23 August 2022)

Total Marks: 1

Aldolases belong to _____ group of enzymes

Select the correct option

- (●) Lyases
- ( ) Ligases
- ( ) Oxidoreductases
- ( ) Isomerases

Click to Save Answer & Move to Next Question