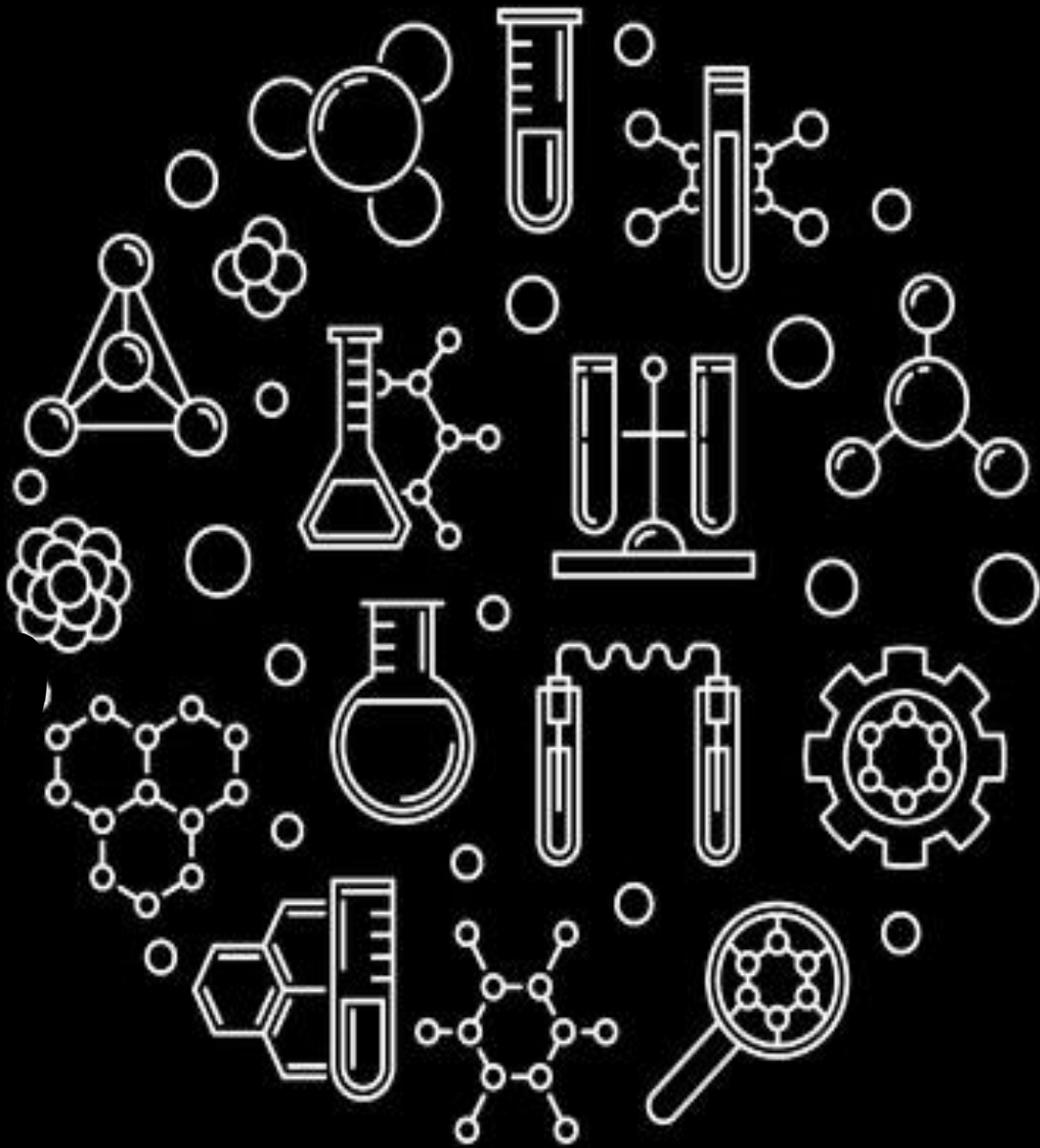


BIOCHEMISTRY



DONE BY: BOSHRA AL-RBAIHAT

1) the following Coenzyme should be required during the action of the enzyme alanine transaminase:

- A) pyridoxal phosphate
- B) vitamin B6
- C) Biocytin
- D) TPP
- E) Pyridoxine

Answer: A

2) The metal which is found in the active site of superoxide dismutase is:

- A) Magnesium
- B) Manganese
- C) iron
- D) Zinc
- E) Selenium

Answer: B

3) Which of the following is true about the reaction that converts pyruvate to

oxaloacetate, knowing that this reaction is catalyzed by pyruvate carboxylase enzyme:

A) TPP is the coenzyme in the enzyme catalyzing this reaction.

B) Consumption of raw eggs may affect the reaction.

C) this enzyme is classified as lyase

Answer: B

4) the enzyme pyruvate decarboxylase depends on the following vitamin as a cofactor:

A) B1 thiamin

B) B5 pantothenic acid

C) B3 niacin

D) B2 flavin

E) Biotin

Answer: A

5) Which reaction is driven by PLP :

A) Alanine to pyruvate

B) Alanine to oxaloacetate

C) pyruvate to acetyl Co-A

Answer: A

6) which vitamin that involved in decarboxylation reactions:

A) thiamine

B) pantothenic acid

C) biotin

D) pyridoxine

Answer: A

7) Many chronic alcoholics develop thiamin deficiency because of a poor diet and an inability to absorb thiamin from the intestine in the presence of ethanol. Which one of the following cofactors, synthesized from a vitamin, or a vitamin itself, exhibits a mechanism of action similar to thiamine:

A) NAD⁺

B) FAD

C) Ascorbic acid

D). γ -Tocopherol

E) CoA

Answer: E

8) Which one of the following vitamins is the precursor for the correct answer to the previous question:

A) Pantothenate

B) Niacin

C) Pyridoxine (vitamin B6)

D) Folate

E) Biotin

Answer: A

9) One of the following is NOT true in regard to flavin adenine dinucleotide (FAD):

a) It is needed for the function of lactate dehydrogenase.

b) It forms a radical during reactions.

c) It binds covalently to enzymes.

d) It accepts two electrons sequentially.

e) It works with oxidoreductase enzymes.

Answer:A

10)The process of activation of the following enzyme involves an irreversible covalent modification:

A) Protein kinase A.

B) Chymotrypsin.

C) Glycogen phosphorylase b,

D) Glycogen phosphorylase a.

E) Hexokinase I.

Answer:B

GOOD LUCK GUYS ^_^