

RS- Biochemistry

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Lecture 1

Medical card .

Name _____

Date of b

Gender _____

Address _____

Date of call _____

Collected By :

Qasim El Shajrawi



1. Which value of K_a indicates more acidity?

- A) 2
- B) -1
- C) -2
- D) -3
- E) 1

Ans:A

2. Why is bicarbonate a good buffer for organic acids?

- a) Its pK_a is suitable for blood pH.
- b) It has a high concentration in the body.
- c) It can absorb excess heat.
- d) It is soluble in lipid

Ans:A

3. which of the following is false :

- A) 20% of CO_2 is transported by carbaminoHb.
- B) 10% of CO_2 is transported as dissolved in plasma.
- C) Carbonic anhydrase has reverse direction in the lung that forms CO_2 .
- D) Alkalosis is caused by CO_2 retention.
- E) 70% of CO_2 is transported as bicarbonate ions in the blood.

Ans:D

4. which of the following are true :

- A) pH more than pK_a means the buffer is more effective
- B) pH less than pK_a means the buffer is more effective
- C) in our blood plasma acid and base concentrations are equal
- D) pH close to pK_a means the buffer is more effective

Ans:D

5. Conjugate base :

- A. HPO_4^{2-}
- B. H_2O
- C. H_3PO
- D. H_3O^+

Ans: A

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Lecture 2

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Collected By:

Qasim El Shajrawi

Q1:carboxyl group of DPG are combined with :

- A) lysin 82
- B) histidine 142
- C) lysin 2
- D) histidine 82

Ans:A

Q2: Structure of heme in myoglobin and hemoglobin, All of these correct expect:

- A)heme has similar structure in myoglobin and hemoglobin
- B)heme is a complex of porphyrin and ferric iron(Fe^{+3})
- C)porphyrins are a group of organic compound that have four pyrrole subunits interconnected via alpha- methylene bridges ($=CH-$)
- D)A pyrrole ring is a group of four carbon atoms and a nitrogen atom bounded together in a ring

Ans:B

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Lecture 3

Medical card

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Collected By :

Malak alzidaneen



increase affinity between HB and o₂?

- A- CO poisoning
- B- low ph
- C- high H proton

Ans:A

one is false?

- H⁺ bind to Hb increasing affinity to O₂.
- co₂ binding to Hb decreasing affinity to O₂
- high PH will increase the affinity to O₂.

Ans:A

Hb o₂ curve shifted left in?

- Decreased 2,3-DPG.
- high 2,3-DPG.
- high CO₂.

Ans:A

hb o₂ curve shifted left in?

- A- Co poisoning.
- B- increased Co₂

Ans:A

co shifted right in?

A-Exercise.

B-decreased CO₂

C-increase affinity to O₂

Ans:A



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Lecture 4

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Malak alzidaneen



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Lecture 4

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Malak alzidaneen



3) Wrong about hydrogen peroxide?

A-It is lipid insoluble

B-its lipid soluble

Ans:a

2) According to Glutathione,one is wrong

a. Tripeptide

b. composed of glutamate, cysteine and glycine

c. Glycine is highly reactive

d. sulphhydryl group is very reactive

e. sulphhydryl group provide electrons

Ans:C

3) All of them true about a-tocopherol except:

A)Is the most widely distributed antioxidant in nature

B)lipid-soluble antioxidant

C)lipid radicals produced in the lipid peroxidation chain reaction

D)food rich in vitamin E include olive oil, margarine, almonds, peanuts, meats, dairy and leafy greens

E) ascorbic acid regenerate the oxidised form of vit E.

Ans:E

Peroxide group are generate ----- for killing invasive organisms by -----

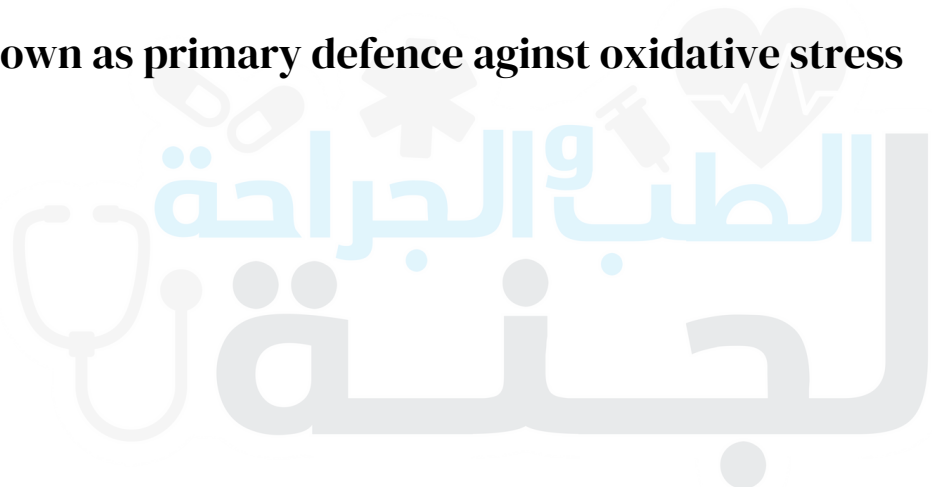
-- :

- A) OH, neutrophils
- B) Hypochlorous acid, neutrophils
- C) Superoxide radicals, macrophages
- D) Nitric oxide, eosinophils

Ans:B

The true is :

- Superoxide dismutase known as primary defence against oxidative stress



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lecture 5

The molecular basis of lung diseases

Collected By :

Raneem Bashtawi



1. True about infant who born after 29 - 32 week :

- A . has 15 - 40 % tendency to RDS
- B. Has zero tendency to RDS
- C. Has 100% tendency to RDS

Ans: A

