
Tenth directed work of biochemistry

Carbohydrate metabolism

Exercise 1.

- a. What is the location of glycolysis?
- b. what are the irreversible reactions of glycolysis?
- c. What is the energy balance of glycolysis?
- d. Among the reactions of glycolysis write:
 - A phosphate transfer reaction.
 - An oxydo-reduction reaction
 - An isomerization reaction
- e. What glycolysis reactions consume ATP?
- f. What glycolysis reactions product ATP?

Exercise 2.

Acetyl CoA is a product of the catabolism of constituents of living matter. It is degraded to CO_2 and H_2O in the Krebs cycle.

- a. What is the reaction that allows acetyl CoA to enter the cycle?
- b. How many ATP molecules are formed during the breakdown of one acetyl CoA molecule in the cycle?

Exercise 3.

- a. What is the location of glycogenolysis?
- b. Name the enzymes involved in glycogenolysis?