

1. Give the location of the following processes:

Kreb's cycle _____

Oxidative phosphorylation _____

glycolysis _____

ETC _____

2. List the products of the Krebs cycle:

3. Which of these statements about ATP is true?

- a. The bond joining ADP and the third phosphate is a high-energy bond.
- b. The formation of ATP is coupled to energy-liberating reactions.
- c. The conversion of ATP to ADP and inorganic phosphate provides energy for biosynthesis, cell movement, and other cellular processes that require energy.
- d. ATP is the "universal energy carrier" of the cells
- e. a, c and d are true.
- f. All of these are true.

4. The net gain of ATP per glucose molecule in anaerobic respiration is _____;

the net gain in aerobic respiration is about _____.

5. _____ (organ) has an almost absolute requirement for blood glucose as its energy source.

6. Which statement is true

- a. Ligands are always proteins.
- b. Ligands are always substrates.
- c. Substrates are always ligands.
- d. Substrates are always proteins

7. Give an example of an endergonic reaction: