

Q.1 Solve the following questions.**(5 Marks)**

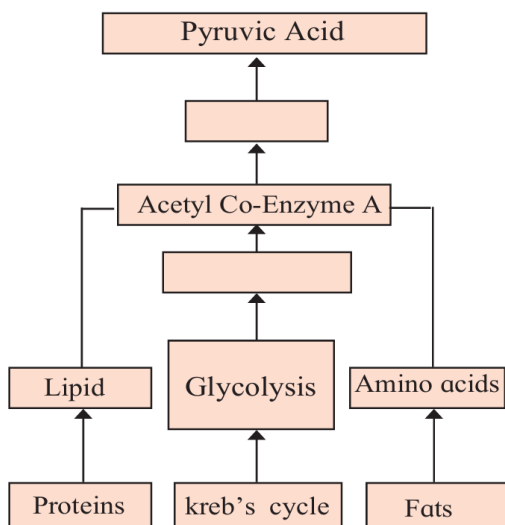
- After complete oxidation of a glucose molecules, _____ number of ATP molecules are formed.
- At the end of glycolysis, _____ molecules are obtained.
- Write definition: Nutrition
- In humans, sperm production occurs in the organ _____.
- In humans, _____ chromosome is responsible for maleness.

Q.2 Solve the following questions. (Any Three)**(6 Marks)**

- Give the names.
 - Hormones related with male reproductive system.
 - Hormones secreted by ovary of female
- Distinguish between: Glycolysis and TCA cycle.
- Give scientific reasons: Oxygen is necessary for complete oxidation of glucose.
- Write short notes based upon the information known to you. a. Lamarckism

Q.3 Solve the following questions. (Any Three)**(9 Marks)**

- Sketch the labeled diagram: Menstrual cycle
- How energy is formed from oxidation of carbohydrates, fats and proteins? Correct the diagram given below.

**(iii)** Write evolutionary history of modern man.?**(iv)** Define heredity. Explain the mechanism of hereditary changes.