

Hand

Q1) What is a calorie?

Ans) Calorie is defined as the amount of heat energy required to raise the temperature of the body by 1 degree Celsius.

Q2) Cellular respiration begins with a pathway called glycolysis.

Q3) Is the following sentence true or false?

Glycolysis releases a great amount of energy.

Ans) False

Q4) How many calories make up 1 Calorie?

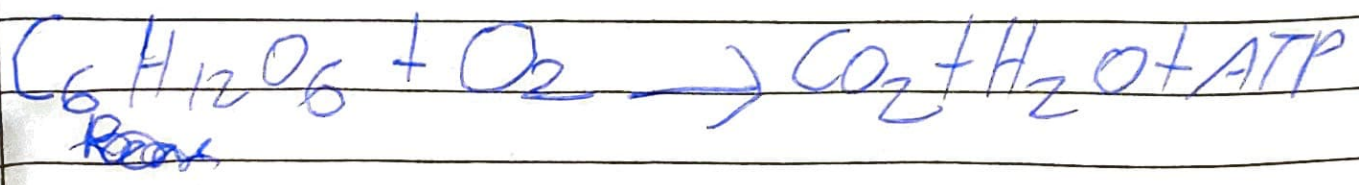
Ans) 1000 calories make up 1 Calorie.

Q9) What is cellular respiration?

Ans) Cellular respiration is the process that releases energy by breaking down glucose and other food molecules in the presence of oxygen.

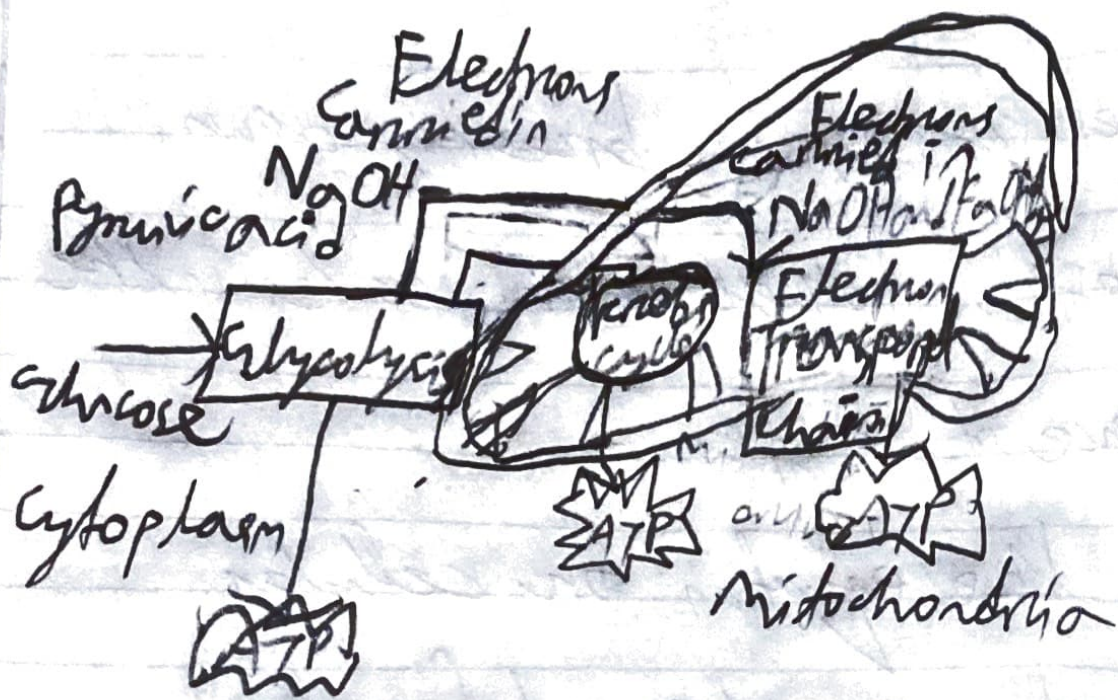
Q6) What is the equation for cellular respiration using chemical formulae?

Ans) $\text{Glucose} + \text{Oxygen} \rightarrow \text{Carbon dioxide} + \text{water} + \text{ATP}$
Reactants Products



Q7) Where does glycolysis takes place?

Ans) Glycolysis takes place in cytoplasm.



Q8) Where do the Krebs cycle and electron take place?

Ans) The Krebs cycle and electron take place in mitochondria.

Q9) Label the three main stages of cellular respiration on the illustration of the complete process.