

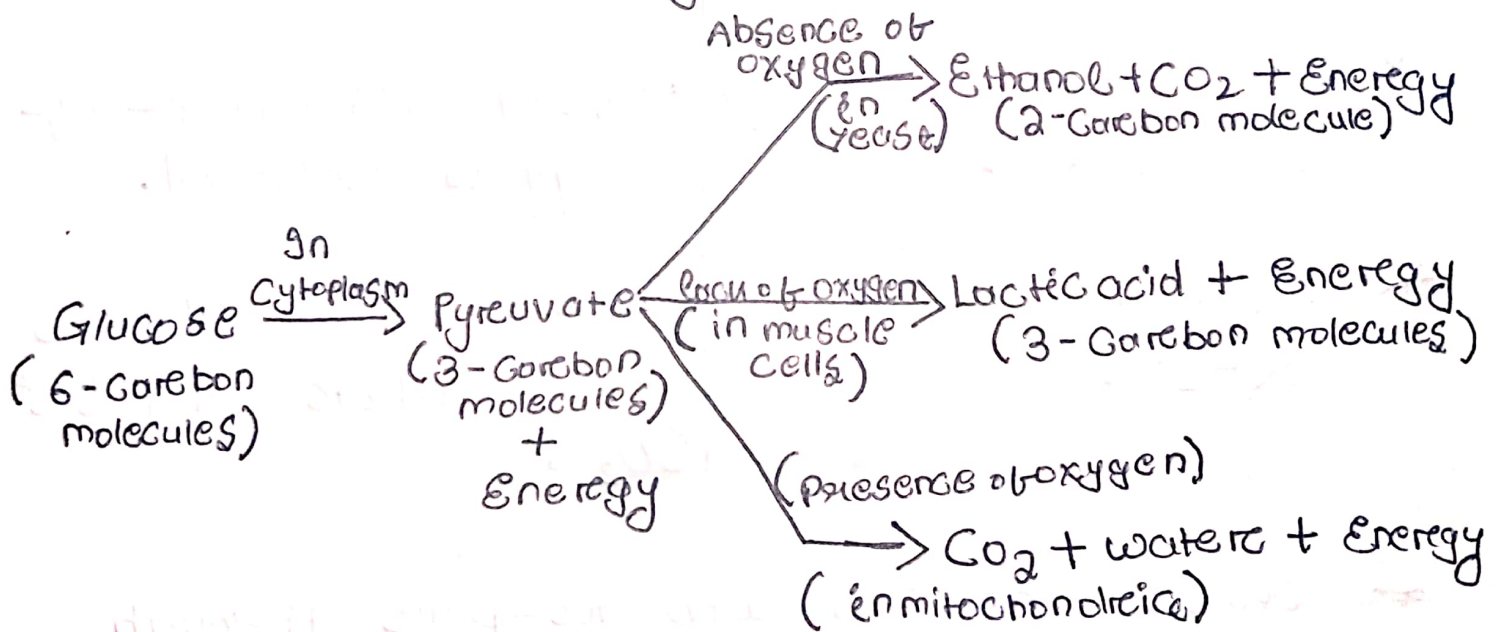
1. write 4 points of difference between aerobic and anaerobic respiration.

⇒ Difference between aerobic & anaerobic respiration

Ans ⇒ <u>Aerobic Respiration</u>	<u>Anaerobic respiration</u>
* occurs in the presence of oxygen.	* occurs in the absence of oxygen.
* A large amount of energy is released.	* very less amount of energy is released.
* product obtained $CO_2$ & $H_2O$ .	* Product obtained, are lactic acid or ethanol & $CO_2$ .

2. what are the different ways in which glucose is oxidised to provide energy in various organisms?

Ans  $\Rightarrow$  Glucose is first broken down in the cell cytoplasm into a three carbon molecule called pyruvate. pyruvate is further broken down in the following ways to provide energy -



3 ⇒ Differences between Aerobic & Anaerobic respiration are -

Ans ⇒ Aerobic Respiration                      Anaerobic Respiration

\* Occurs in the presence of oxygen.

\* Occurs in the absence of oxygen.

\* A large amount of energy is released.

\* Very less amount of energy is released.

\* Product obtained  $\text{CO}_2$  &  $\text{H}_2\text{O}$ .

\* Product obtained, are lactic acid or ethanol &  $\text{CO}_2$ .

② Some organisms, who respire through anaerobic respiration are - some parasitic worms, yeasts, and in animal muscles. It also occurs in the roots of some waterlogged plants.