

HW

12/5/21

Aerobic Respiration

- * It is the process of breakdown of food in the presence of O_2
- * It takes longer time to release energy
- * It occurs in the cytoplasm and mitochondria
- * End products are CO_2 and water

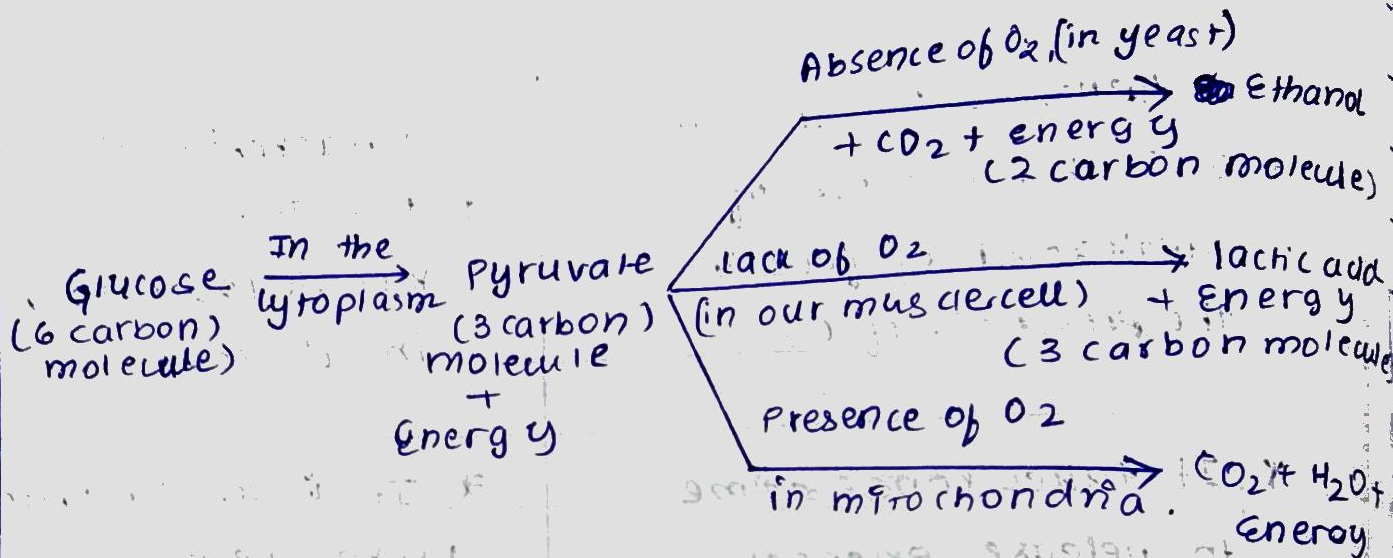
Anaerobic Respiration

- * It is the process of breakdown of food in absence of O_2
- * It is a fast process from aerobic respiration
- * It occurs only in the cytoplasm.
- * End products is CO_2 , ethanol in case of yeast and lactic acid in case of animals.

Pg. 105, box question -

(Q) What are the different ways in which glucose is oxidised to provide energy in various organisms?

ans - Glucose is first broken down in the cytoplasm into 3 carbon molecules known as pyruvate. Pyruvate is further broken down into -



Exercise Q no- 8

What are the difference between aerobic and anaerobic respiration? Name some organisms that use anaerobic mode of respiration.

ans

Aerobic Respiration	Anaerobic Respiration
\rightarrow It occurs in the presence of O_2	\rightarrow it occurs in the absence of O_2
\rightarrow It occurs in cytoplasm and mitochondria	\rightarrow It occurs only in the cytoplasm
\rightarrow It releases CO_2 and H_2O	\rightarrow It releases alcohol and CO_2
\rightarrow exchange of gases occur	\rightarrow exchange of gases do not occur

Anaerobic respiration occurs in some organisms such as yeast and bacteria.