

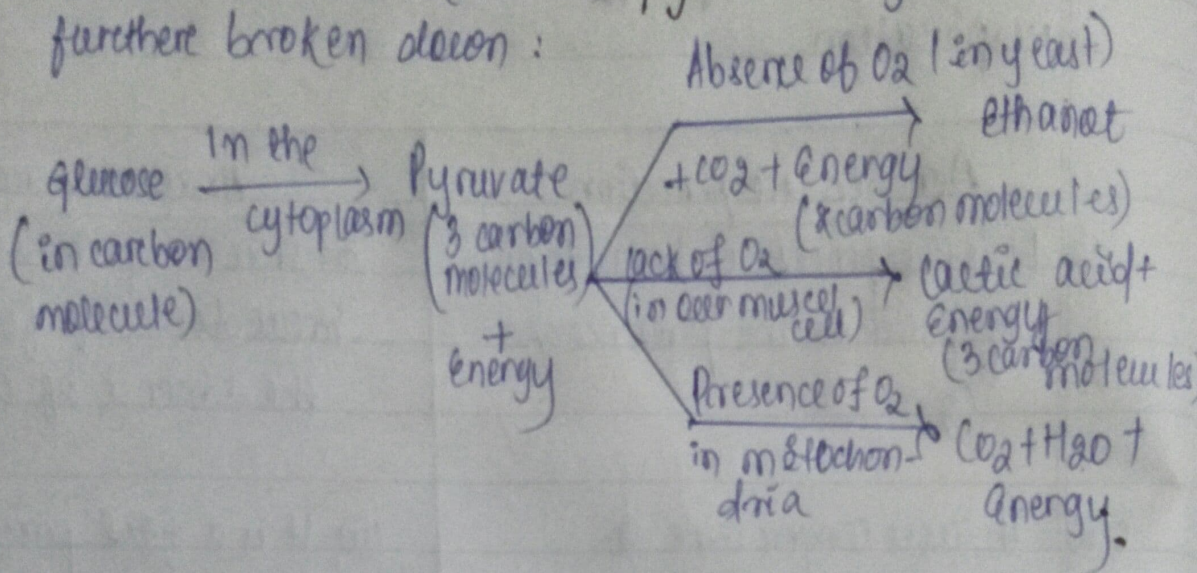
1) Write 4 points of difference between aerobic and anaerobic respiration.

Aerobic respiration	Anaerobic respiration
(i) It is the process of breakdown of food in the presence of O_2 .	(i) It is the process of breakdown of food in the absence of O_2 .
(ii) It takes longer time to release energy.	(ii) It is a fast process in from aerobic comparison to aerobic respiration.
(iii) It occurs in the cytoplasm and mitochondria.	(iii) It occurs only in the cytoplasm.
(iv) End products are CO_2 and water.	(iv) End product is CO_2 , ethanol in case of yeast and lactic acid in case of animals.

Pg-105, box question

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

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



Exercise Qno. 8

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

<u>Aerobic Respiration</u>	<u>Anaerobic Respiration</u>
(i) It occurs in the presence of O_2 .	(i) It occurs in the absence of O_2 .
(ii) It occurs in cytoplasm and mitochondria.	(ii) It occurs only in the cytoplasm.
(iii) It releases CO_2 and H_2O	(iii) It releases alcohol and CO_2 .
(iv) Exchange of gases occur.	(iv) Exchange of gases don't occur.

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