12/5/2021 H/W Biology

ch → Life process.

Q1) Write 4 points of difference between aerobic and anaerobic respiration

	AEROBIC Respiration	ANAEROBIC Respiration
ANS		
(1)	Oxygen is present when this form of respiration takes place.	Oxygen is absent when this form of respiration takes place.
(2)	Gases are exchanged in this form of respiration.	Gases are not exchanged in this form of respiration.
(3)	It can be found in the cytoplasm and the mito-condria.	It can be found only in the cytoplasm.
(4)	Glucose break down into carbon dioxide and water	Glucose breaks down into ethyl alcohol, carbon dioxide and energy.
Ex →	All higher organisms such as mammals have this type of Respiration	Ex → Lower organisms such as bacteria and yeast use this type. In other organisms, it occurs during heavy activities.

Q2) What are the different ways in which Glucose is oxidised to provide energy in various organisms?

Ans 105) Different ways in which the breakdown of Glucose take place

Anaerobic Resp^n → This Resp^n takes place in the absence of oxygen

Exmp - In yeast during fermentation in this process, the pyruvate is converted into ethanol and carbon dioxide

Aerobic Resp^n — This Resp^n to give rise to 3 molecules of carbon dioxide and water. The release of energy in aerobic Resp^n is much more than anaerobic Resp^n

Lack of oxygen - When there is a lack of oxygen in our body mainly during vigorous activity in our muscles converted into lactic acid which is a 3 carbon molecule compound. The formation of lactic acid in muscles causes cramp.

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Q8 What are the differences between aerobic and anaerobic Resp? Name some organisms that use the anaerobic mode of Respiration. Some organisms that use the anaerobic Resp?

Ans Yeast; Bacteria;
clostridium botulinum
E. coli; Staphylococcus.