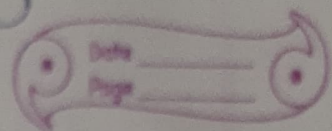


12/5/21

①



HOME ASSIGNMENT

Q) Write four points difference between Aerobic and Anaerobic respiration.

Ans: Aerobic respiration Anaerobic respiration.

- | | |
|---|--|
| → Aerobic respiration takes place in the presence of oxygen | → It takes place in the absence of oxygen. |
| → Complete breakdown of food occurs | → Partial breakdown of food occurs. |
| → The end products are carbon dioxide and water. | → End products may be lactic acid |
| → It produces a considerable amount of energy | → it produces much less amount of energy. |

Q) What are the difference ^{ways} ~~between~~ in which glucose is oxidised to provide energy in various organisms?

Ans: There are two different ways in which glucose is oxidised to provide

Energy in various organisms: aerobic respiration and anaerobic respiration. Aerobic respiration uses oxygen whereas anaerobic respiration takes place without oxygen.

(i) In aerobic respiration, the glucose food is completely broken down by the oxygen inhaled during breathing to form carbon dioxide and water and a lot of energy is released.

(ii) In anaerobic respiration, the glucose food is ~~is~~ completely broken down by microorganisms like yeast in the absence of oxygen to form ethanol and carbon dioxide, but much less energy is released.

Q) Name some organisms that use the anaerobic mode of respiration.

Ans: Anaerobic mode of respiration is used by certain ~~micro~~ microorganisms such as yeast and some bacteria and anaerobic bacteria.