

HOMEWORK ASSIGNMENT

1. Write 4 pts of diff b/w :-

Aerobic Respiration

- (i) Aerobic respiration takes place in the presence of O_2 .
- (ii) Complete oxidation of food
- (iii) End products - CO_2 & H_2O
- (iv) Produces large amount of energy

Anaerobic Respiration

- (i) Anaerobic respⁿ takes place in the absence of oxygen.
- (ii) Partial breakdown of food
- (iii) End products - may be ethanol & CO_2 or Lactic Acid
- (iv) Produces less energy.

2. (a) What are the diff ways in which glucose is oxidised to provide energy in various organisms?

Ans: There are 2 diff ways in which glucose is oxidised to produce energy -

- (1) Aerobic respiration
- (2) Anaerobic respiration.

①

In aerobic respiration, the glucose is completely broken down by the O_2 inhaled during breathing to form CO_2 & H_2O with liberation of a large amt of energy.

②

In anaerobic respiration, the glucose is incompletely broken down in abs. of O_2 to form ethanol and CO_2 , but less energy is released.

(b)

Name some organisms that use the anaerobic mode of respiration.

Ans:

Yeast and some anaerobic bacteria