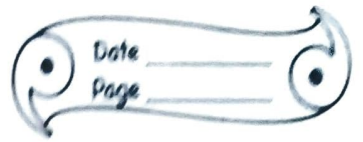


20/5/21



Homework

1ans) → The terrestrial organism gets more oxygen as they get oxygen from the atmosphere which has a high amount of oxygen, but the quantity of O_2 is less in water.

2ans) Glucose is oxidised in 2 ways →

① In Presence of oxygen → $C_6H_{12}O_6 + 6O_2 \rightarrow 6H_2O + 6CO_2 + 38ATP$

② In Absence of oxygen → $C_6H_{12}O_6$ $\begin{cases} \rightarrow 2(\text{Lactic acid}) + 2ATP \\ \rightarrow 2C_2H_5OH + 2CO_2 + 2ATP \end{cases}$

3ans) O_2 and CO_2 in body is transported by arteries, veins and capillaries with the help of RBC in blood which carries them inside the vessels to diff parts of body.

4ans) The lungs designed to maximise the absorption of excretion of air because of large surface area of the infinite no of alveoli in each ~~lung~~ lungs. So alveoli in lungs helps to increase the exchange of gases.

Q) Diff between Aerobic and anaerobic respiration?
Give 4 points with an example?

ans: Aerobic Respiration

Anaerobic Respiration

⇒ O_2 is required for aerobic respiration.

⇒ O_2 isn't needed for anaerobic respiration.

⇒ Complete oxidation of Glucose.

⇒ Partial oxidation of Glucose.

⇒ Occurs in mitochondria and cytoplasm

⇒ Occurs in cytoplasm

⇒ End products are CO_2 & H_2O

⇒ End Products in →

Fungi

Ethyl alcohol,
 CO_2 , H_2O ,
2ATP

Human

Lactic acid,
ATP.

⇒ In Human, dogs

⇒ In Fungi, Yeast.