

Dt 15 May 2021

# Home Assignment

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Inter questions pg-105

Q2) How is oxygen and carbon dioxide transported in human beings?

ans. In human beings, oxygen is carried from the lungs by the respiratory pigment haemoglobin which is present in red blood corpuscles.

Carbon dioxide is more soluble in water than oxygen. So, most of the carbon dioxide produced during respiration in human body is transported in the dissolved form in our blood.

Q3) How are ~~lungs~~ <sup>alveoli</sup> designed in human beings to maximise the area for exchange of gases? (Exercise over-9)

ans. There are millions of alveoli in the lungs. The presence of millions of alveoli in the lungs a very ~~are~~ large area for the exchange of gases. And as we know more is the surface area, more will be exchange of gases.



Q1) What are the different ways in which glucose is oxidised to provide energy in various organisms?

Ans: There are two different ways in which the glucose is oxidised to provide energy in various organisms? aerobic and anaerobic respiration.

Q2) What advantage over an aquatic organism does a terrestrial organism have with regard to obtaining oxygen for respiration?

Ans: The aquatic organism use the oxygen dissolved in water for carrying out respiration. The amount of oxygen in water is however limited. The terrestrial organisms take oxygen from air which contains higher amount of oxygen. Thus, a terrestrial organism has an advantage over an aquatic organism in regard to obtaining oxygen.

Q3) Why is the teacher provided

with cartilaginous rings?

~~The cartilaginous rings are provided~~  
because provided with

The trachea is provided with  
cartilaginous rings because the  
cartilaginous ring prevents the  
trachea from collapsing during  
breathing in and out. It also  
play an important role for  
supporting the outer wall of  
the trachea.