HW - 28 - 6 - 24

① How are the lungs designed in human beings to maximize the area for exchange of gases?

Ans- A pair of lungs are designed in humans in such a way that they are lined by a thin membrane where the smaller tubes called bronchioles.

* The ballon like structures & the surface area for the exchange of gases have been increased by the alveoli and network of blood capillaries.

② what are the functions of Lymph in our body?

Ans- Lymph carries digested and absorbed fat from intestines drains excess fluid from extra cellular space back into the blood.

* It transports white blood cells to.

and from lymph nodes to bone. It helps in removal of interstitial fluid from tissues.

(3) How is Haemoglobin associated with Respiration?

Ans Haemoglobin, present in RBCs combines with oxygen in the lungs and is converted into oxyhaemoglobin. This blood is termed pure or oxygenated blood.

* Haemoglobin is the carrier of oxygen to all the living cells for cellular respiration.

* O_2 present in Haemoglobin is used & CO_2 released during cellular respiration combines with Hb. This blood is termed as deoxygenated blood

* This impure blood is carried to the lungs. Hb releases CO_2 & combines with O_2 & is converted into Oxyhaemoglobin again to be carried to all living cells through blood circulation.