

PLW
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Home Assignment (pg-1)

Date _____
Page _____

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 a balloon-like structure and 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) 1) It supplies nutrition and oxygen to those parts where blood cannot reach.

2) It drains away excess tissue fluids.

3) Lymph returns proteins to the blood from the tissue spaces.

4) Fats from the intestine are also absorbed through the lymph.

(3) Ans - Haemoglobin, present in R.B.Cs, 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.

Oxygen present in haemoglobin is used as and carbon dioxide released during cellular respiration combines with haemoglobin. This blood is termed impure or deoxygenated blood. This impure blood is carried to the lungs. Haemoglobin releases carbon dioxide and combines with oxygen and is converted into haemoglobin again to be carried to all living cells through blood circulation.