

① How are the lungs designed in human beings to minimize the area for exchange of gases?  
Lungs play a major role in the respiratory system. In humans a pair of lungs are designed in such a way that they are lined by a thin membrane. The smaller tubes called bronchioles, a balloon like structure called alveoli and a network of blood capillaries increase the surface area for the exchange of gases.

- ② What are the functions of lymph in our body?
- Lymph supplies moisture lymphocytes to the blood.
  - Lymph acts to remove bacteria and other particles.
  - It also maintains fluid balance.
  - Lymph carries digested and absorbed fat from intestine and drains excess fluid from extracellular space back into the blood.

③ How haemoglobin is associated with respiration?

Haemoglobin in the blood carries oxygen from the respiratory organs to permit anaerobic respiration to provide energy to power the functions of the organism in the process called metabolism.