

Q How are the lungs designed in humans beings to maximize the area for exchange of gases?

Ans The lungs are designed to maximize the area for exchange of gases because there are millions of alveoli in the lungs. The presence

of millions of alveoli in the lungs provides a very large area for exchange of gases and the availability of large area for exchange of gases maximize the area for exchange of the gases.

Q: What are the functions of lymph in our body?

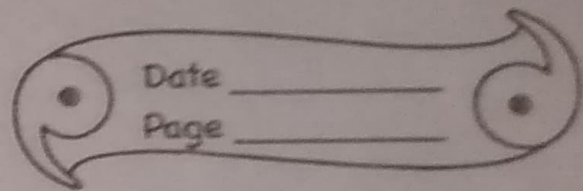
Ans. The functions of lymph in our body

(i) Lymph takes part in the nutritive process of the body. Lymph carries digested fat for the nutritive process.

(ii) Lymph protects the body by killing germs drained by the body tissues.

Q: How is haemoglobin associated with respiration?

Ans. The alveoli is surrounded with very thin blood vessels called capillaries. When we inhale air the O_2 diffuses with alveoli walls with



with blood. Then the O_2 is carried to all parts of body. The blood contains a red pigment called haemoglobin which carries O_2 .