

HUMAN RESPIRATORY SYSTEM

EPIGLOTTIS

▲ A flap-like structure located at the entrance of the larynx. Prevents food and liquids from entering the trachea during swallowing.

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LARYNX (VOICE BOX)

▲ A hollow structure containing the vocal cords. Plays a crucial role in sound production and air passage to the lungs.

TRACHEA (WINDPIPE)

▲ A tube reinforced with cartilage rings that connects the larynx to the bronchi. Allows the passage of air to and from the lungs.

BRONCHUS

▲ The trachea divides into two main bronchi, one leading to each lung. Further branches into smaller bronchi and bronchioles.

LUNG

▲ A pair of spongy, air-filled organs responsible for gas exchange. Contains millions of alveoli where oxygen enters the blood and carbon dioxide is removed.

ALVEOLI

▲ Tiny air sacs within the lungs where the exchange of oxygen and carbon dioxide takes place. Surrounded by capillaries to facilitate efficient gas diffusion.

Bronchus

Cut end of rib

Lung

Diaphragm

Epiglottis

Larynx

Trachea

Image: NCERT

Pleural Membranes

Alveoli

Pleural Fluid

Bronchiole

Diagrammatic view of human respiratory system

PLEURAL MEMBRANES

▲ Thin double-layered membranes covering the lungs. Provide protection and facilitate smooth lung expansion and contraction.

BRONCHIOLE

▲ Smaller air passages that branch from the bronchi. Transport air to the alveoli.

PLEURAL FLUID

▲ A lubricating fluid present between the pleural membranes. Reduces friction during breathing movements.

CUT END OF RIB

▲ Part of the rib cage that protects the lungs and heart. The rib cage expands and contracts during breathing.

DIAPHRAGM

▲ A dome-shaped muscle located below the lungs. Plays a key role in breathing by contracting and relaxing to facilitate airflow.

HEART

▲ Positioned between the lungs, slightly tilted to the left. Pumps oxygenated blood from the lungs to the body and returns deoxygenated blood for oxygenation.

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