2025

LIFE PROCESSES

**Biology** 

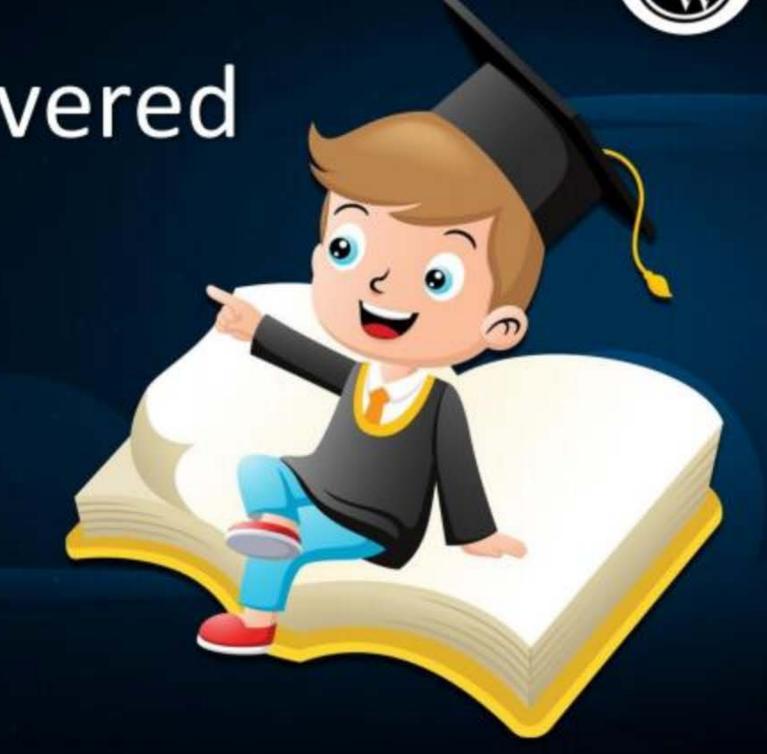
Lecture + 06

By - SAMRIDHI SHARMA Ma'am



# Topics to be covered

- 1 Human respiratory system
- 2 Mechanism of human breathing
- 3 Breathing in fishes
- 4 MCQ practice and Homework





### Question of the Day



Breathing rate of human beings: Total number of breaths taken per minute



Which of the following is not formed during aerobic respiration?

- A Carbon dioxide
- B Water with
- Oxygen
- Energy

braduct

CO2+M20+Energy





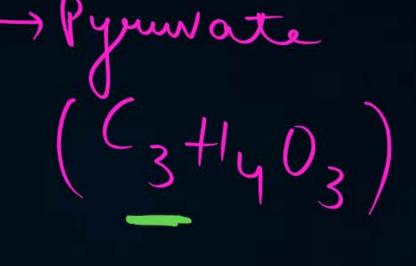
### **QUESTION**



### How many carbons are present in pyruvate?

A 2

- (C. H. O
- 3
- **C** 4
- **D** 6





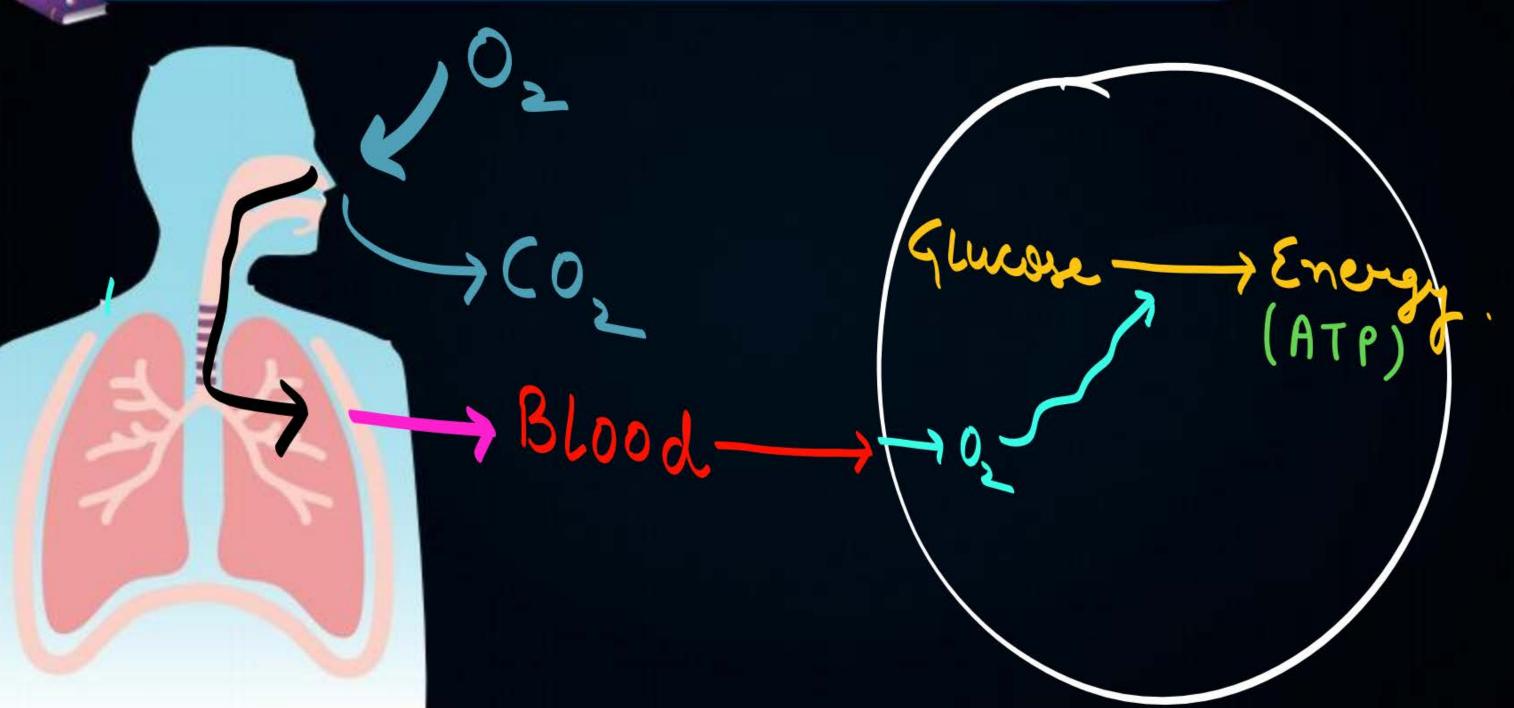


### Breathing

Vs

### Respiration

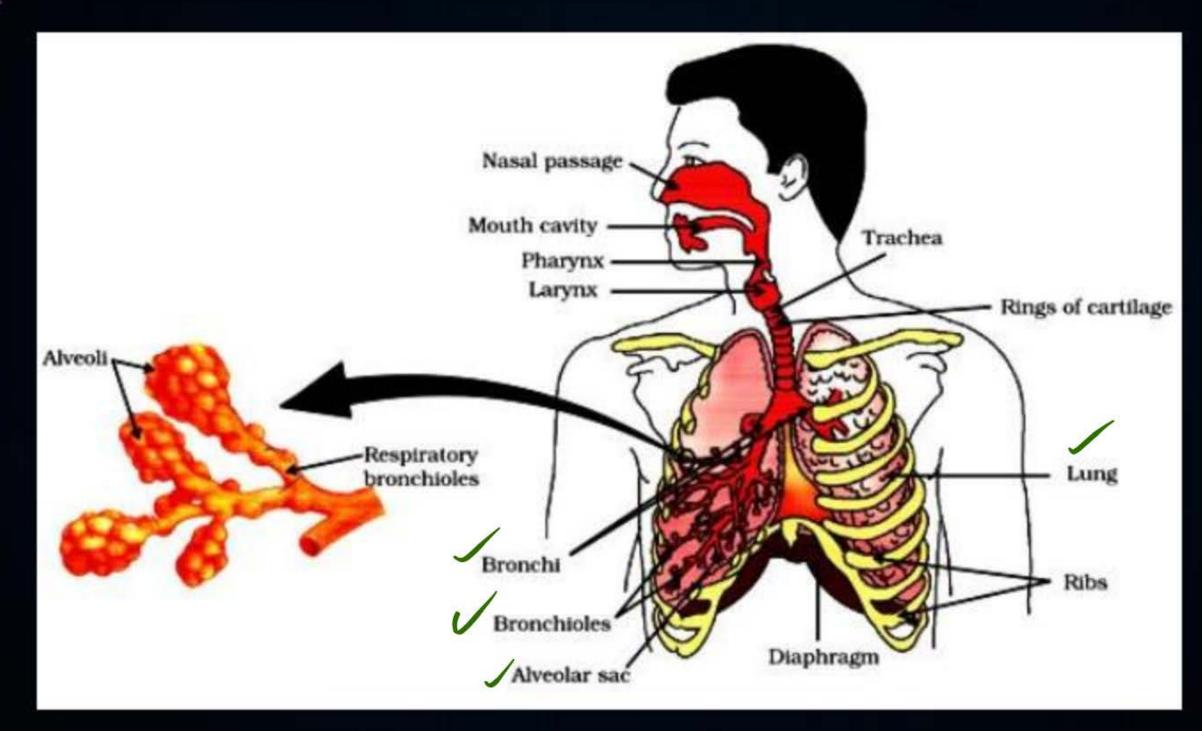






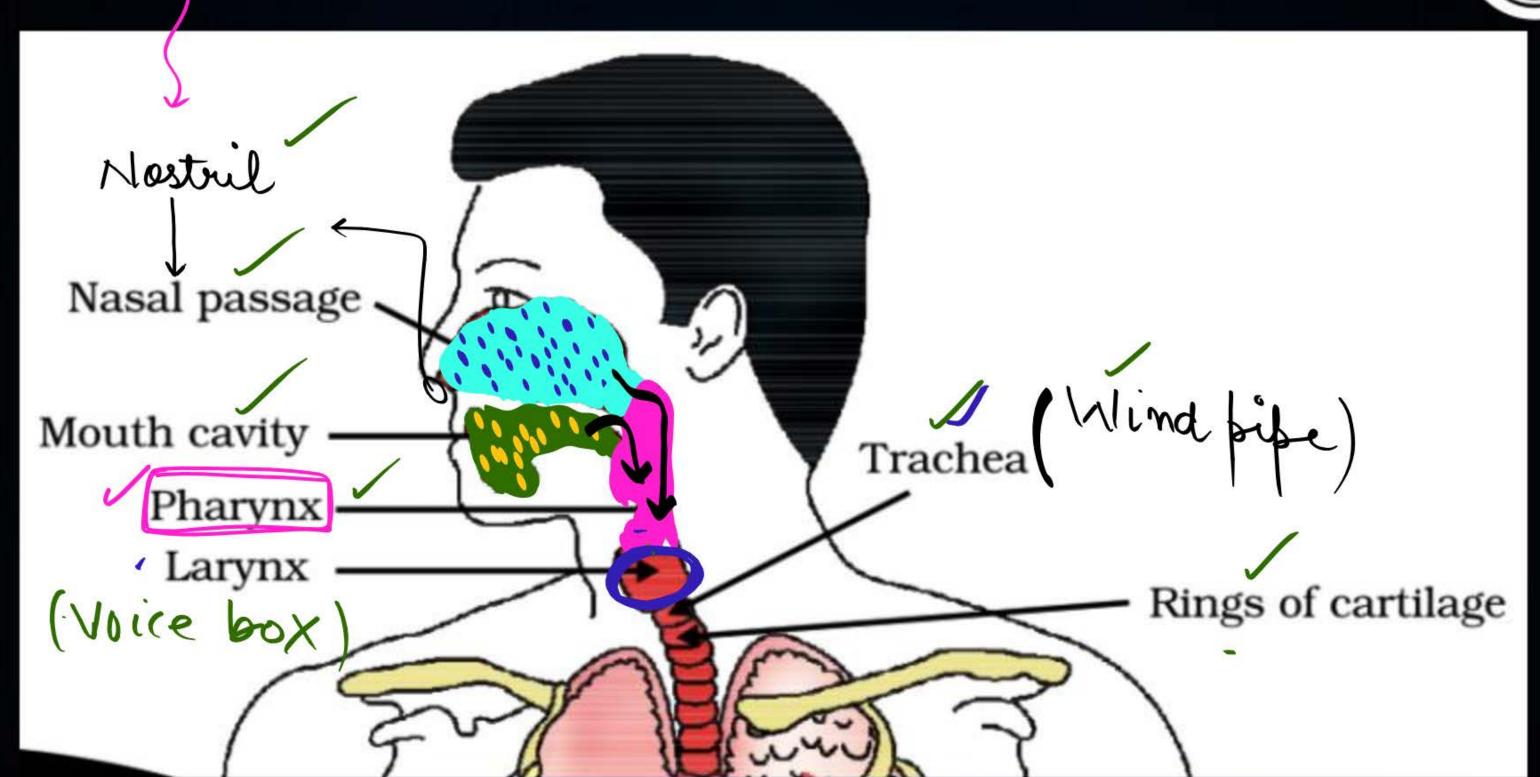
### **Human Respiratory System**

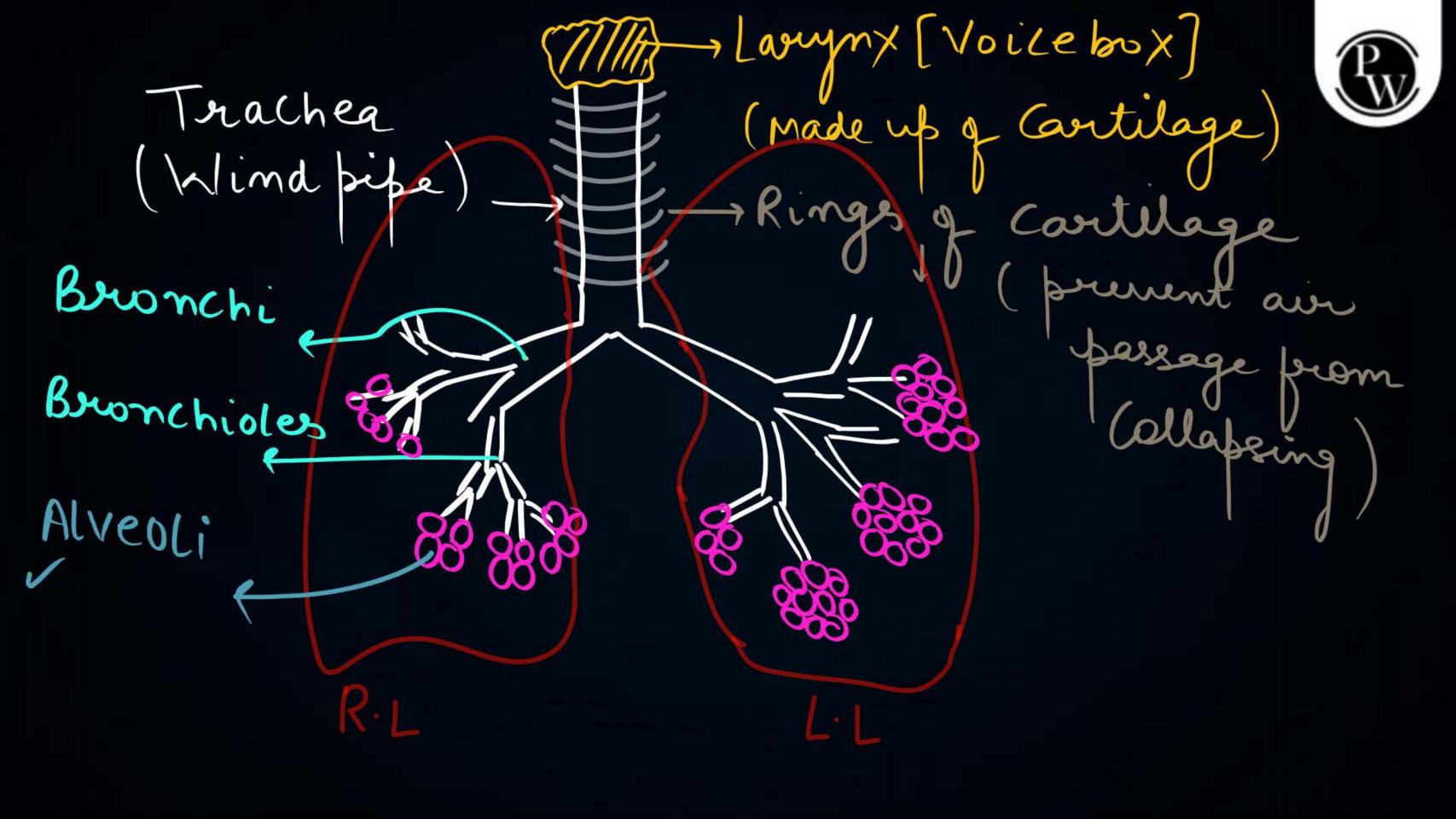


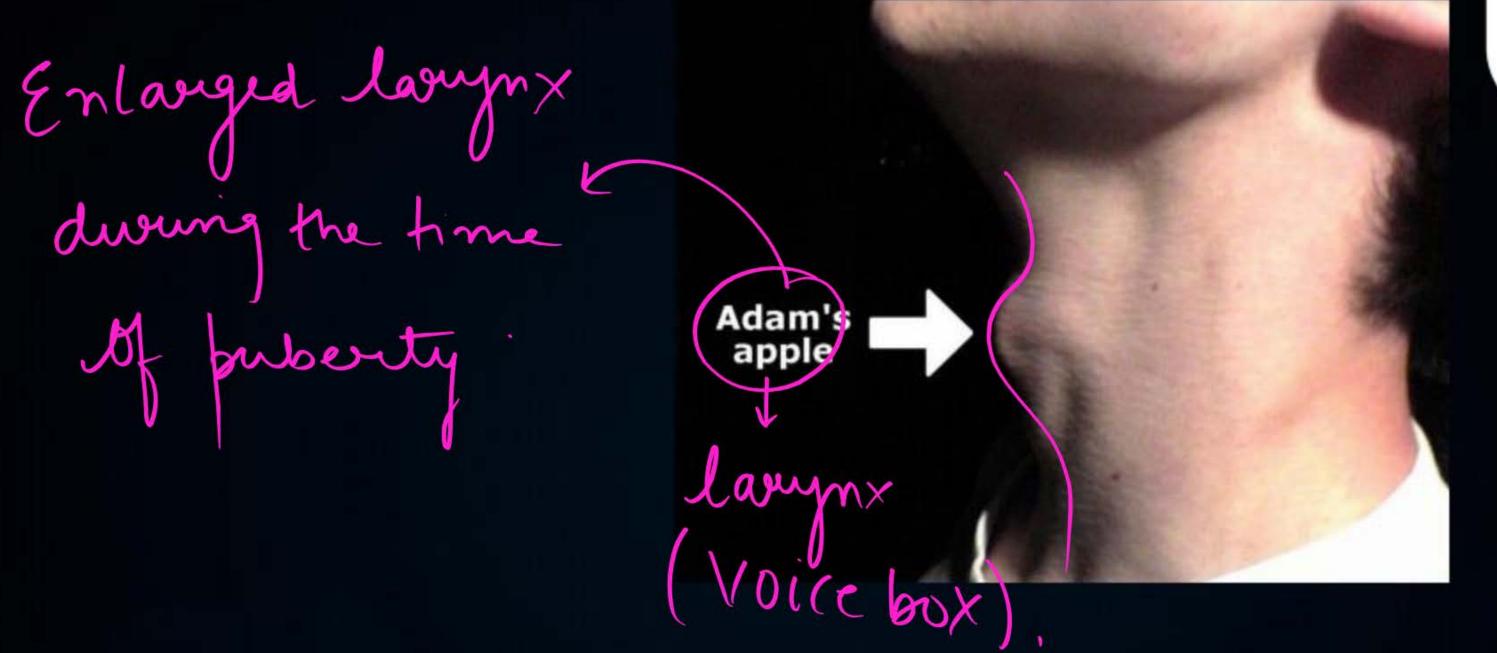


### Inhalation









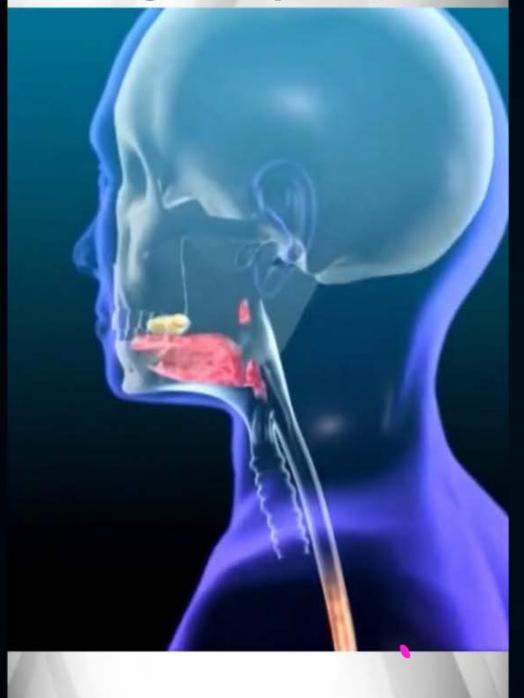








This is why food doesn't get into your 👭

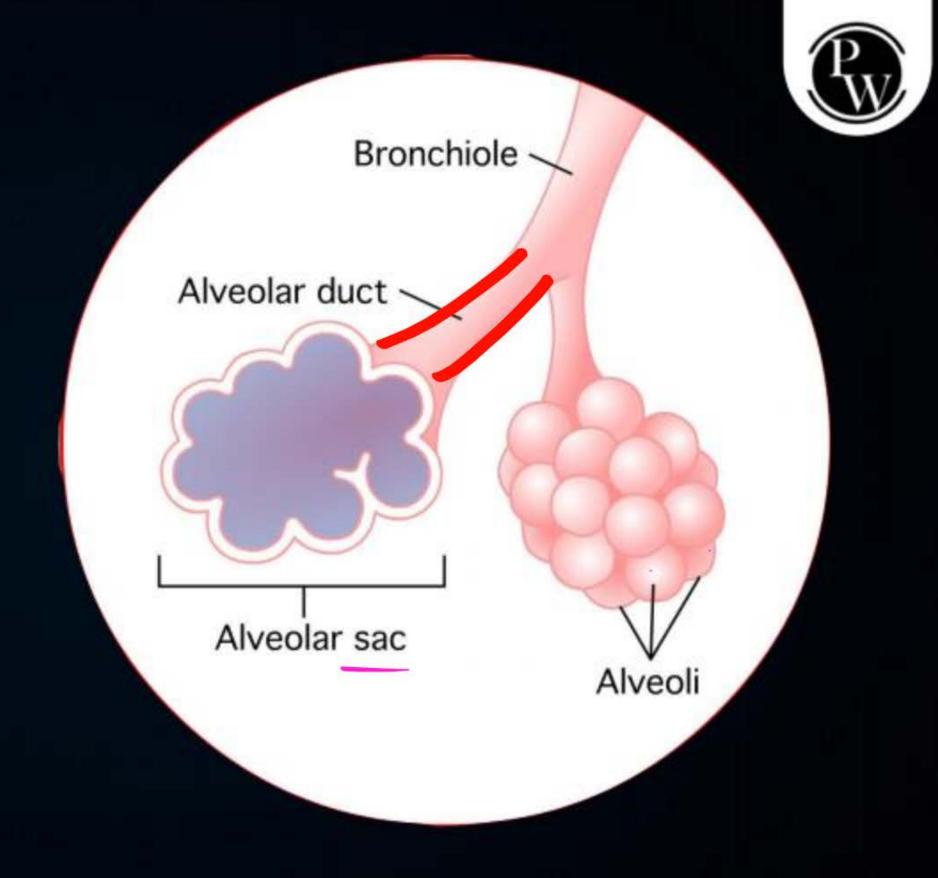


Epiglottis 7 (Stexible) \* flat-like Cartilage structure Which Cowers our Windsipe Kithele Swalloning the food.

-Alveoli

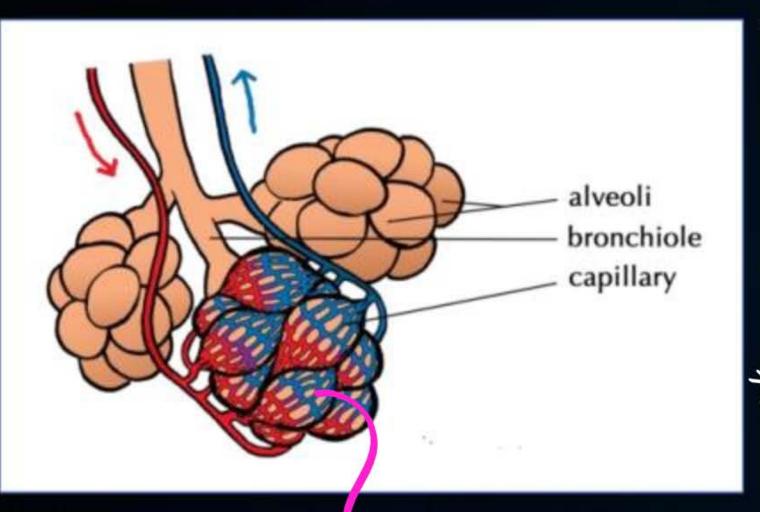


Allveolan Sac



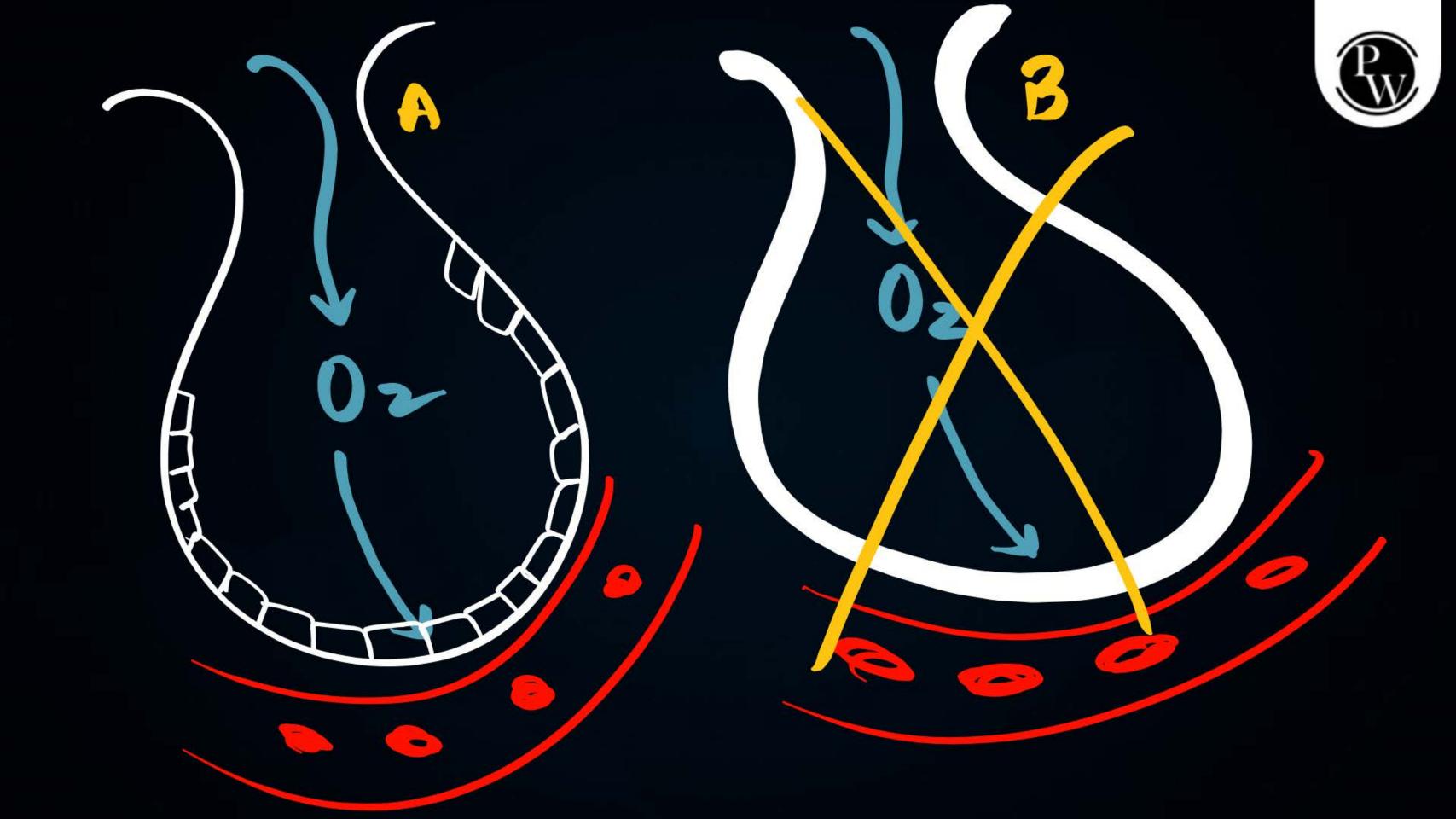


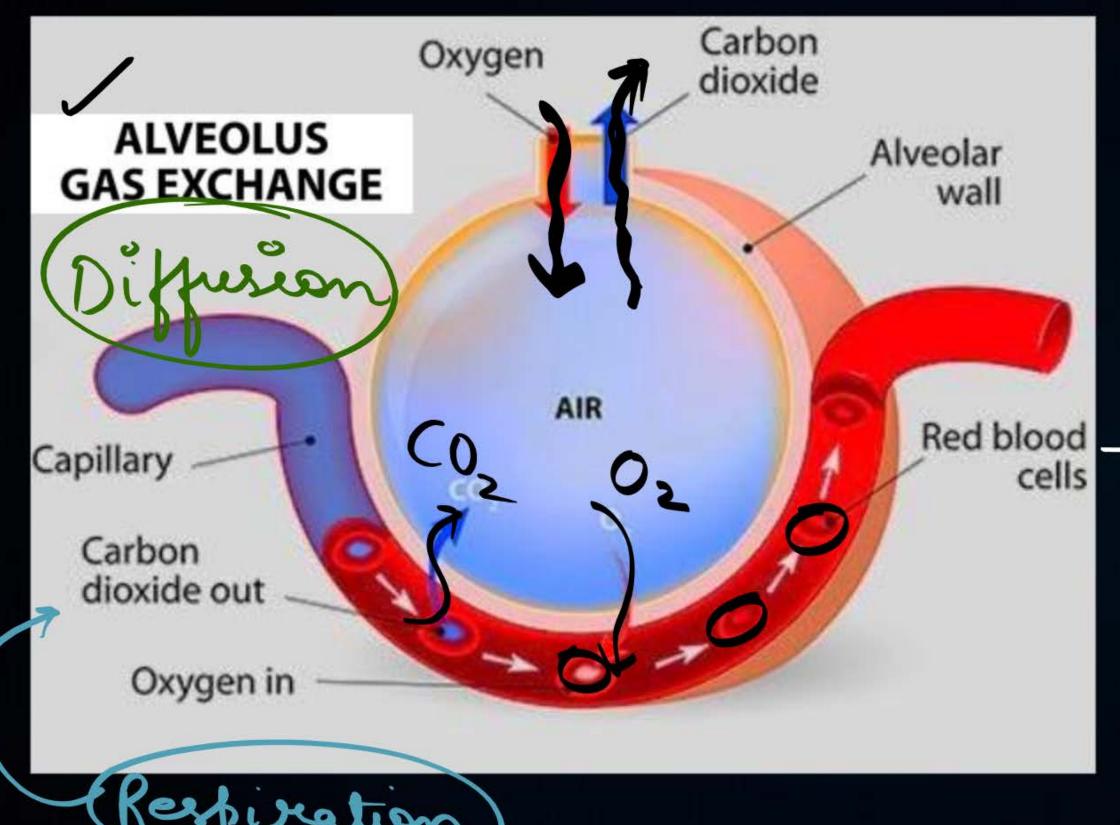




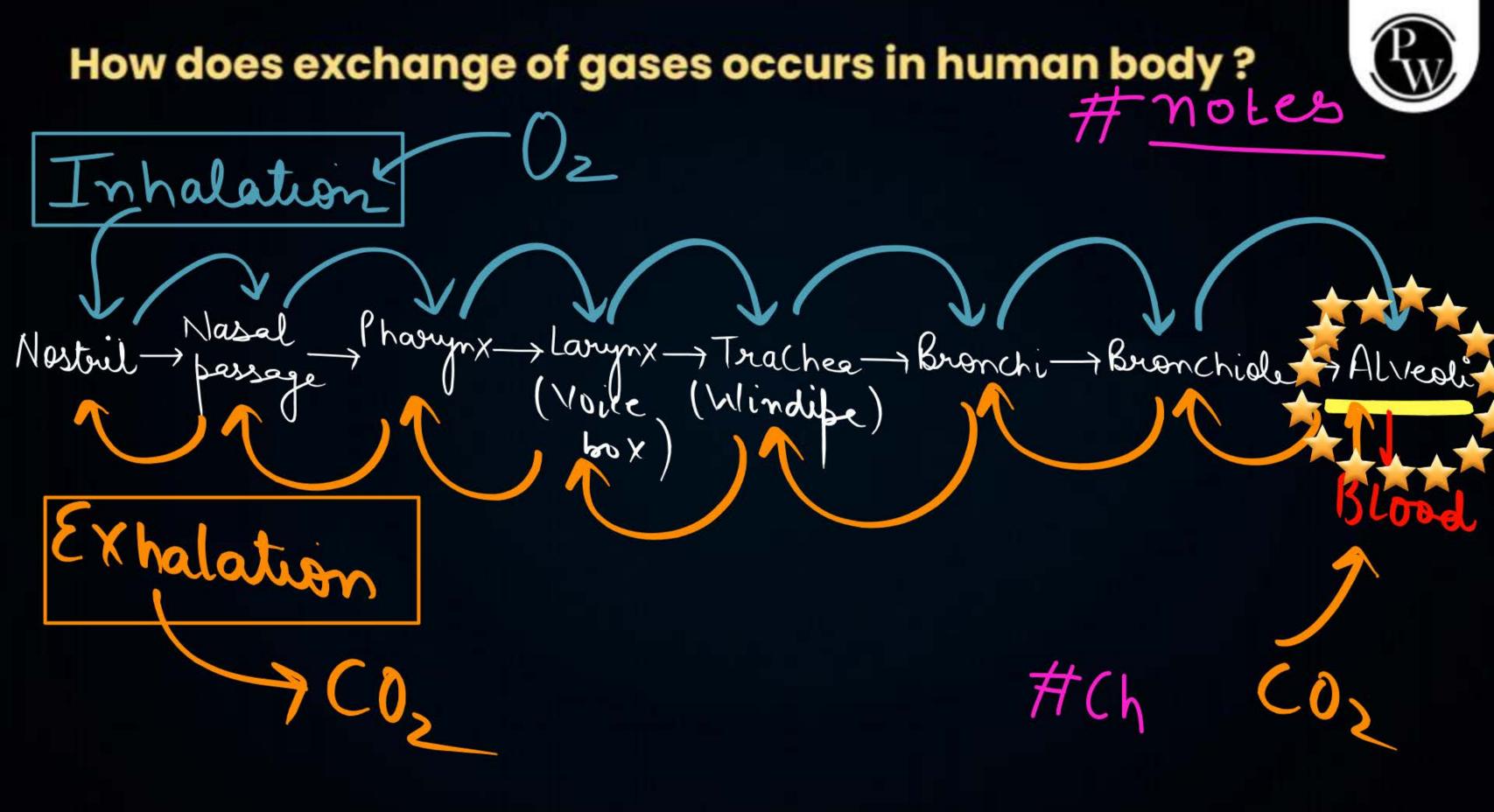
\*Ballon-like structure, Expands When aur enters. Lysurface area increases \* Walls are very thin (only one \* Surrounded by blood Cell thick Vessels.

7 Blood Vessels



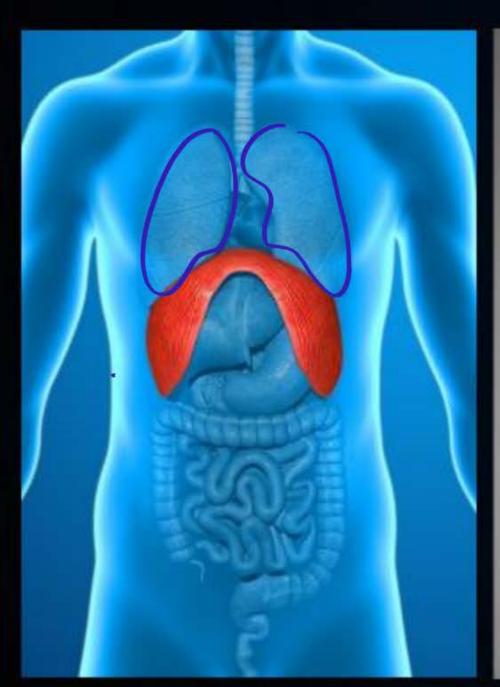


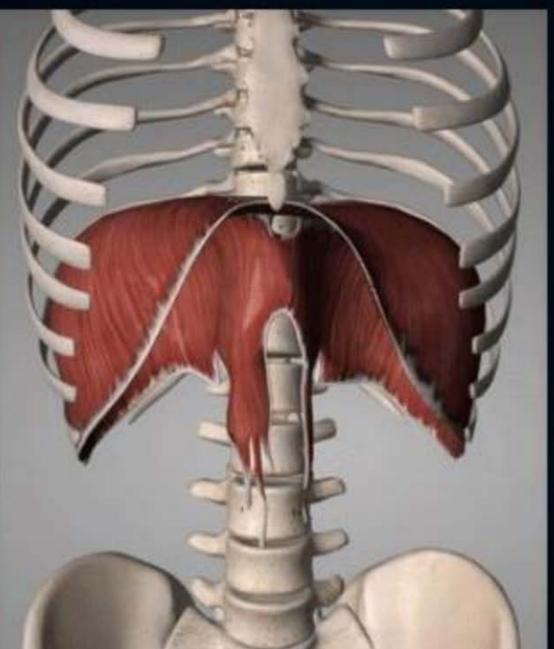
To all lells Triansfort Hemoglobin

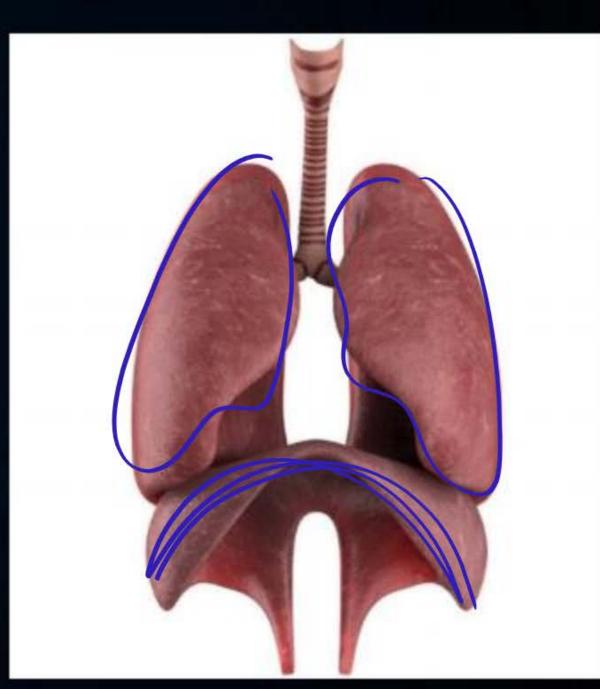


## <u>Diaphragm:</u> It is a thin skeletal muscle that sits at the base of the chest and separates the abdomen from the chest.

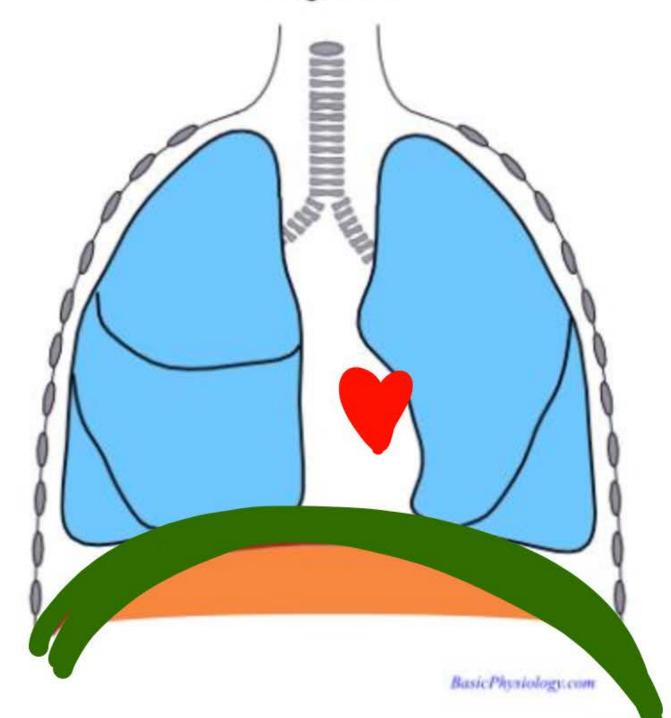






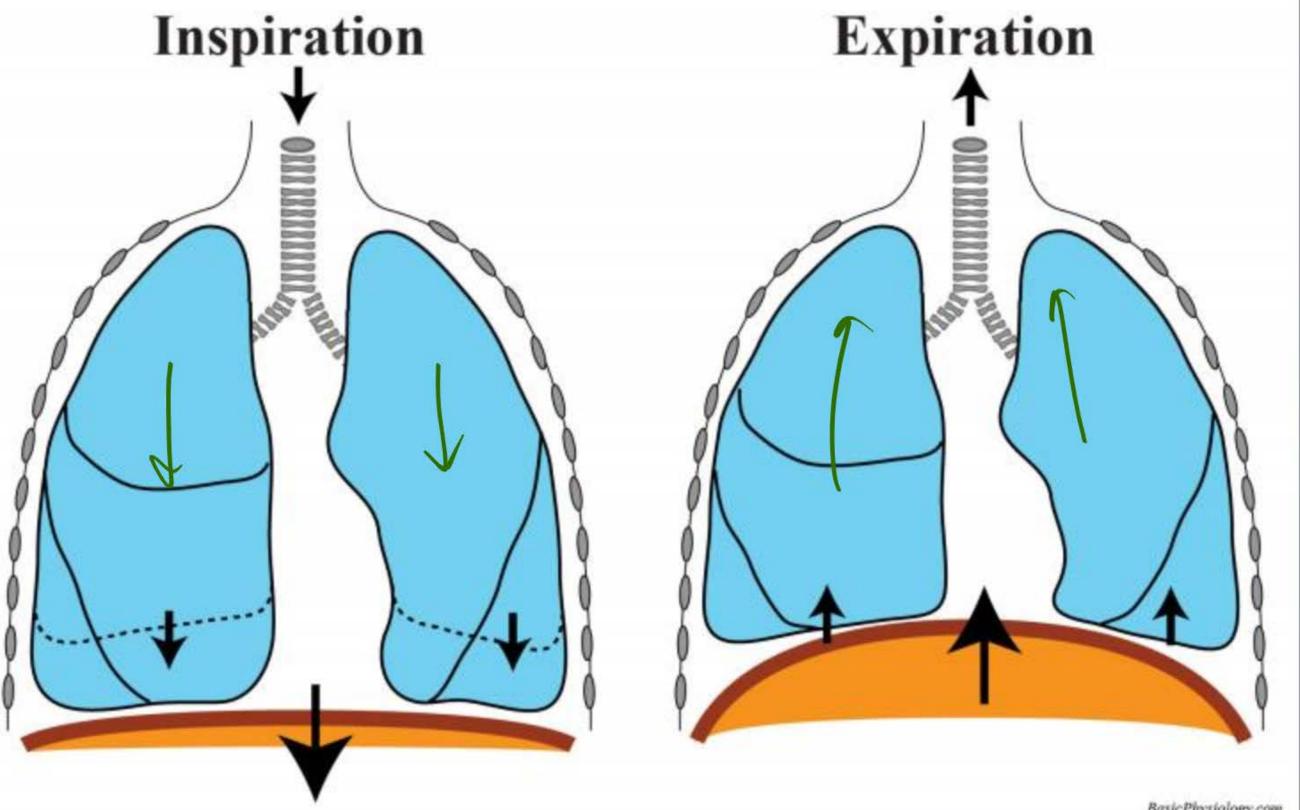


### Inspiration











	Inhalation / Inspiration	Exhalation / Expiration
•	The muscles of the diaphragm contract.	The muscles of the diaphragm relax.
•	The diaphragm goes downward and becomes flat.	The diaphragm goes upward and becomes dome shaped
•	The ribs move upwards and outwards.	The ribs move downwards and inwards.
•	Air enters the lungs through the nose.	Air goes out the lungs through the nose.

### QUESTION



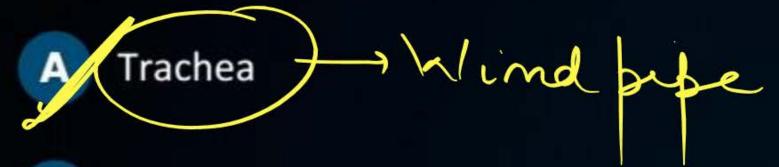
### The site of exchange of gases in human lungs is:

- A Trachea
- **B** Bronchi
- C (Alveoli
- **D** Larynx

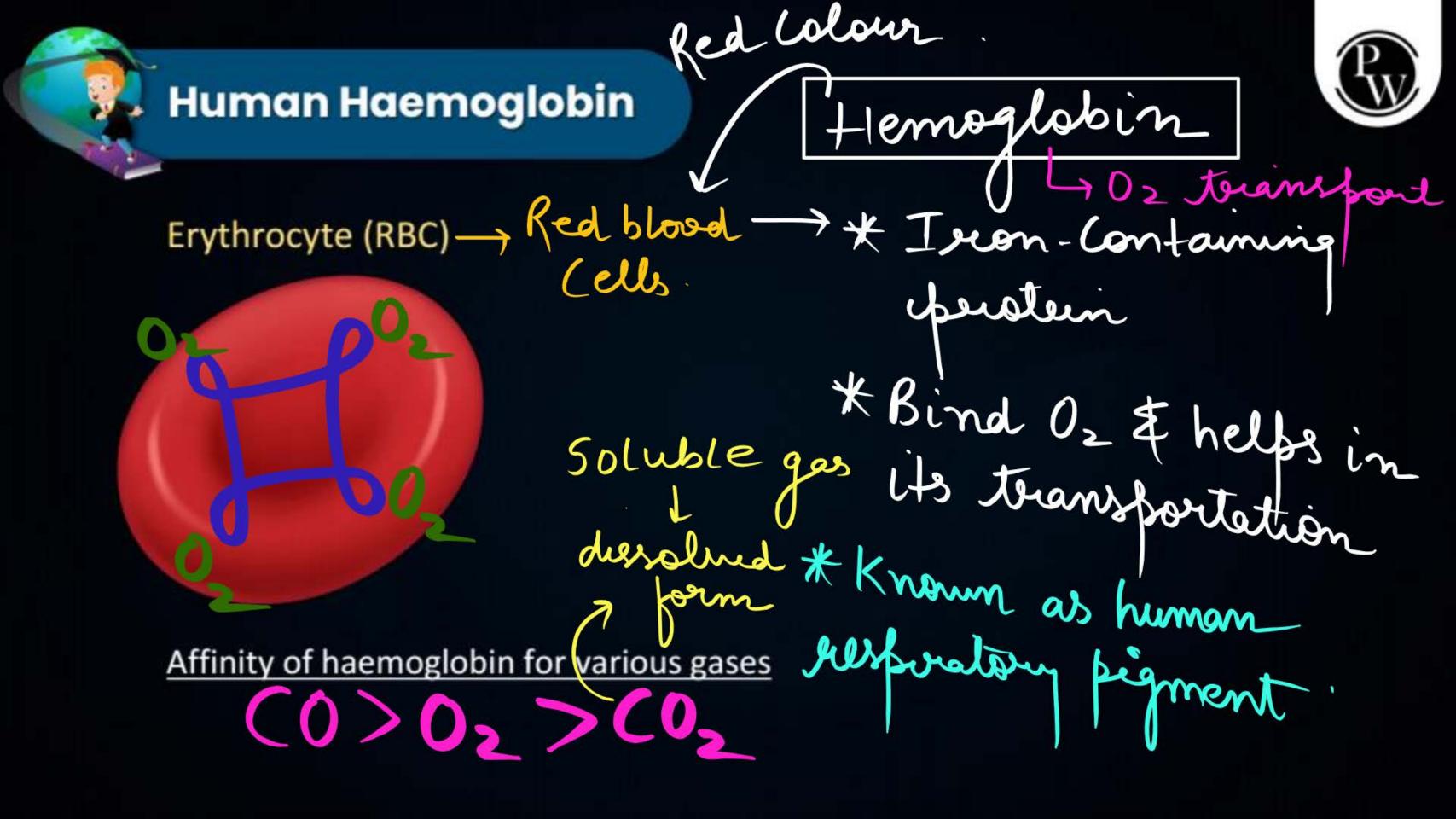
### QUESTION



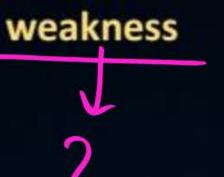
### Which of the following is supported by rings of cartilage?



- **B** Bronchi
- **C** Alveoli
- **D** Larynx



Lack of haemoglobin will lead to weakness









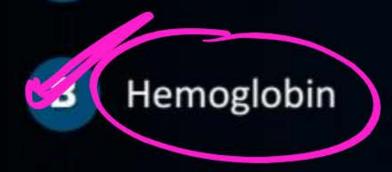


### QUESTION



Which of the following is respiratory pigment for carrying oxygen in humans?

A Chlorophyl

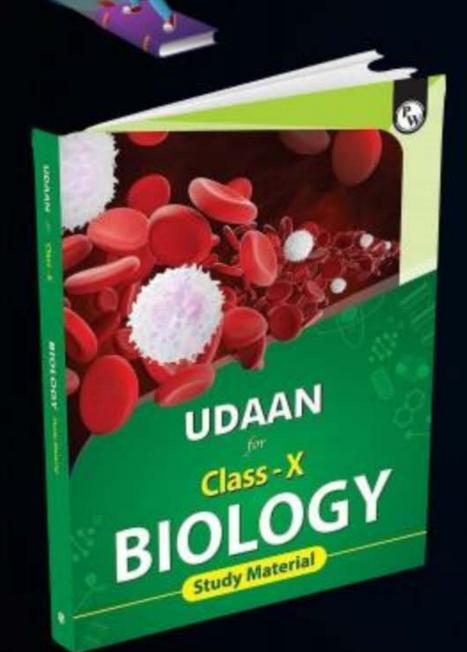


**C** Alveoli

D White blood cells







FROM PW MODULE (Udaan - CLASS 10)

PAGE:55—Q-14,Q-15



### Joke/Meme of the Day



