

Worksheet

1. When air is blown from mouth into a test tube containing lime water, the lime water turns milky due to presence of

A. (d) Carbon Dioxide.

2. In which of the following group/groups of animals, heart does not pump or generate blood to different parts of body?

A. (a) Pisces only

3. The filtration units of kidney are called -

A. (d) Nephrons

4. 4. ~~What is~~ Why it is essential to match blood group of donor & receiver person before exchanging transfusion of blood?
A. Because if their blood groups will don't match then the receiver will die & if their blood groups will match, the receiver will easily obtain blood from donor without any harm.

5. Why it is necessary to separate oxygenated & deoxygenated blood in mammals & birds?

A. The circulatory system of mammals & birds is more efficient & can maintain their constant body temp. Separation of oxygenated & deoxygenated blood allows a highly efficient supply of oxygen to body.

6. Dark reaction of photosynthesis does not need light. Do plants undergo dark reaction at night explain.

A. Both the light & dark reactions occur in the day. As dark reaction does not

require light it doesn't mean it occurs at night it only requires products of light reactions like ATP & NADPH.

7 Differentiate between Inhalation & Exhalation

- | A. Inhalation | Exhalation |
|---|---|
| <ul style="list-style-type: none"> • Intake of air into the lungs • Active process • Size of chest increases, expand • Diaphragm contract gets flattened by moving down. • It causes supply of oxygen-rich air to the blood. | <ul style="list-style-type: none"> • Expelling air out of the lungs • Passive process • Size of chest decreases, reduce • Diaphragm Relax move up forming a dome shape. • It causes Carbon dioxide is expelled out |

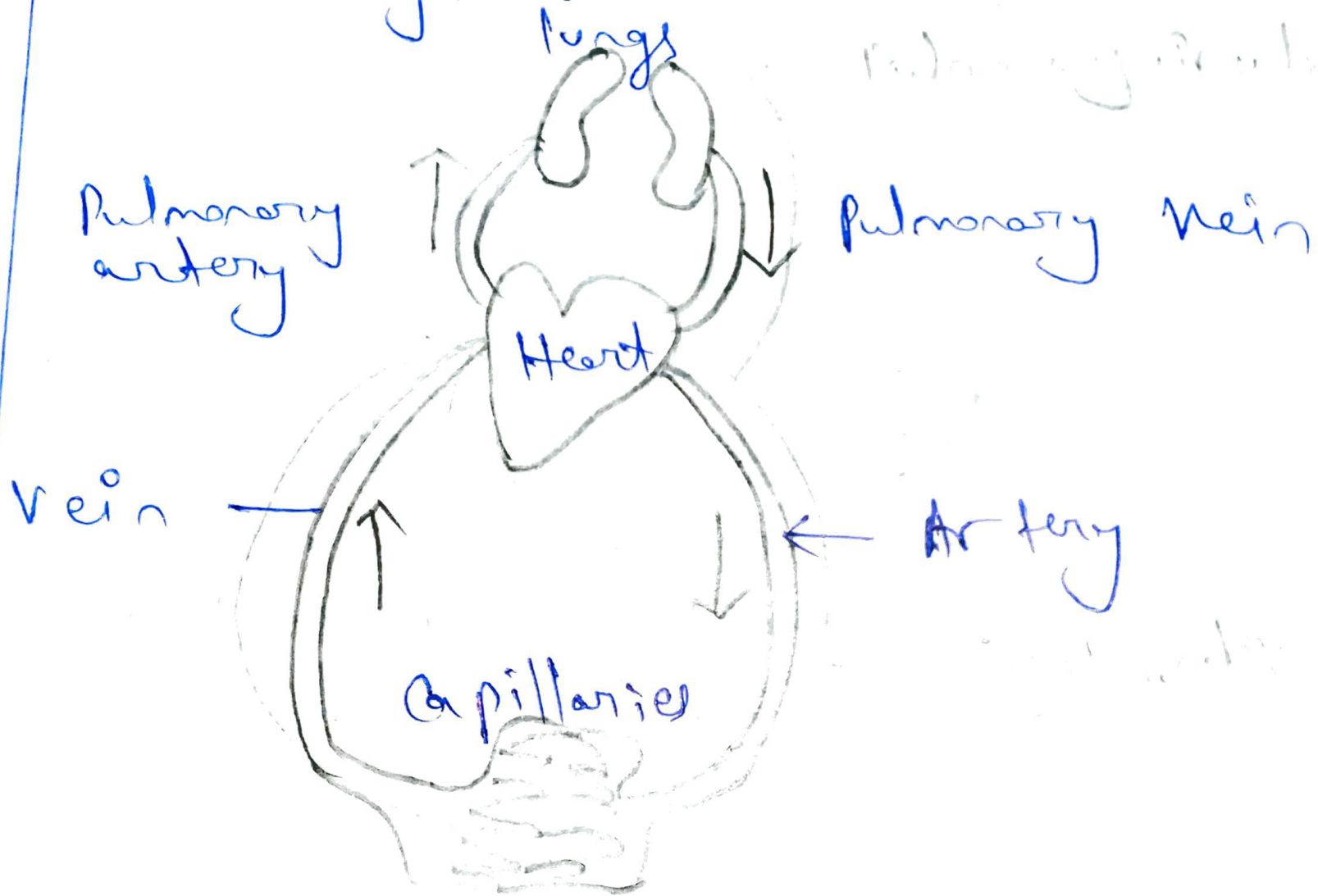
8. What are the functions of human respiratory system?

- A. Functions:
- Inhalation & Exhalation
 - Exchange of Gases between lungs & bloodstream
 - Exchange of Gases between Bloodstream & Body tissue

The vibration of the Vocal Cords
olfaction or smelling

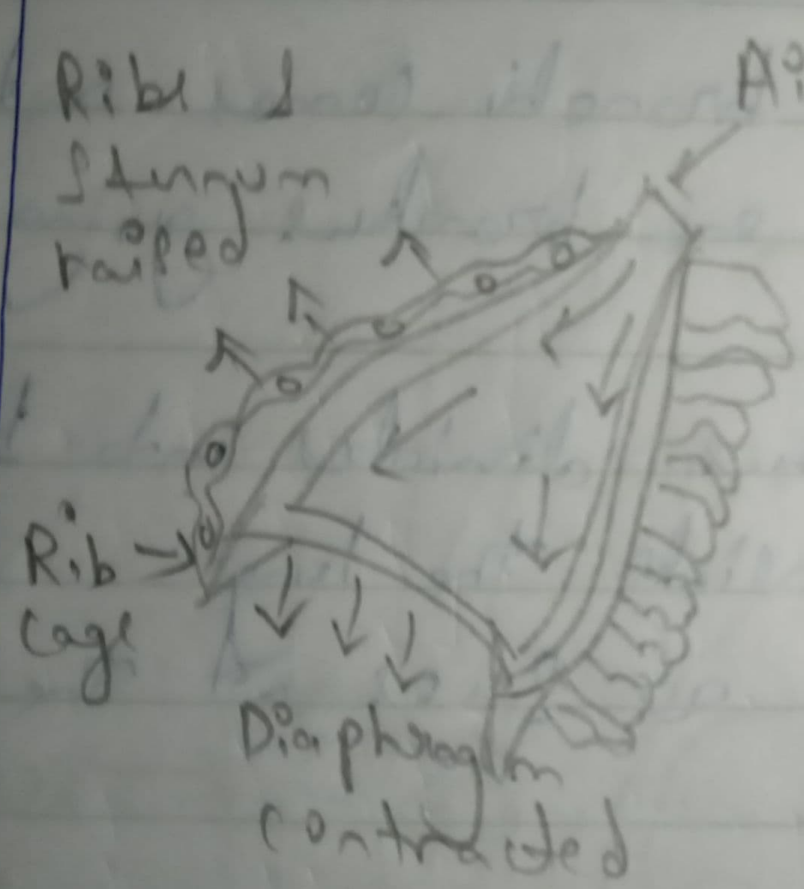
9. With the help of diagram, Discuss the mechanism of respiration in human being.
A: In man takes place in two phases, namely inspiration & expiration. Inspiration is the process of taking air into the lungs. During inspiration, the muscles of diaphragm contract & diaphragm moves downward. During expiration, the muscles of diaphragm relax & diaphragm moves upward.

10. With the help of diagram, show pulmonary circulation in man.



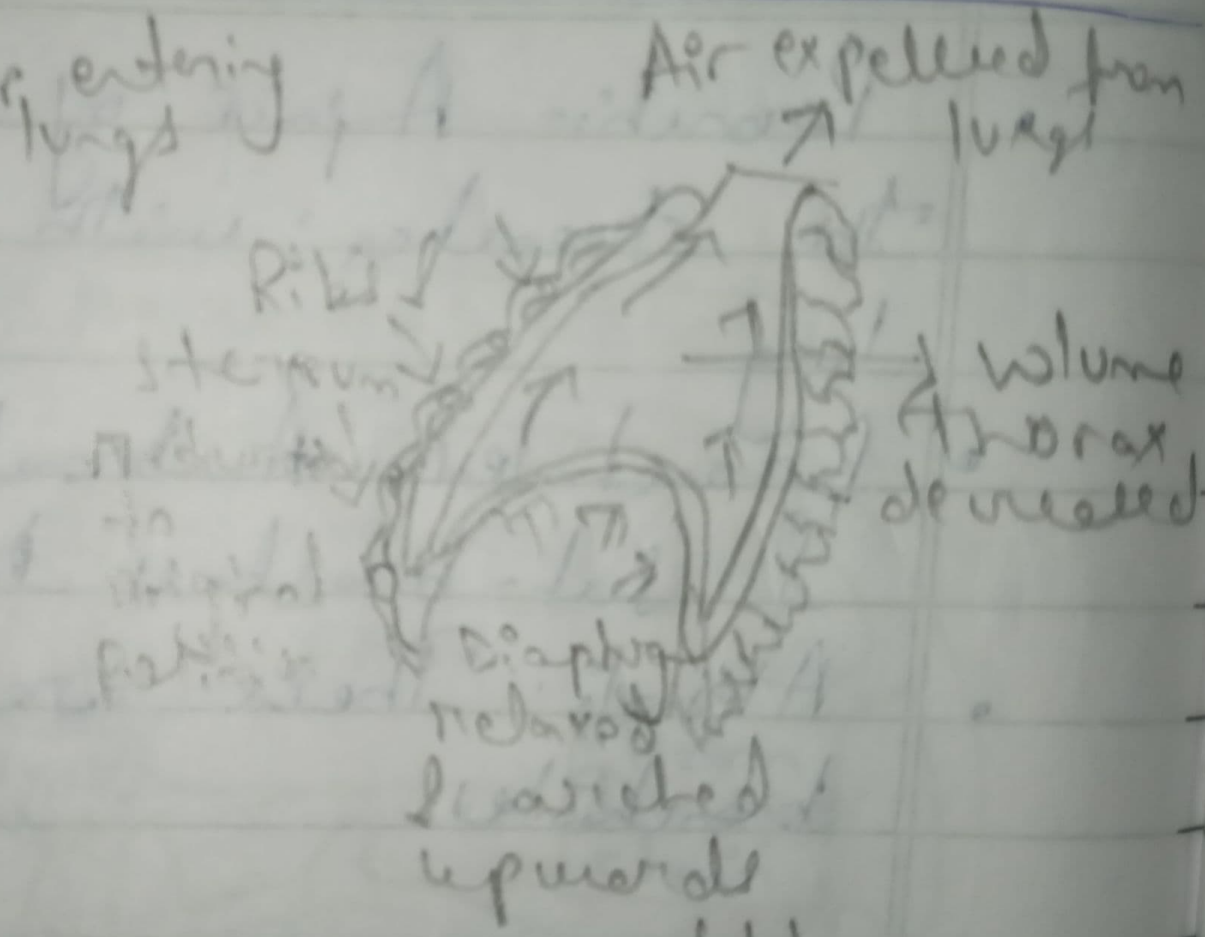
Pulmonary circuit

Systemic circuit



(a)

Inspiration



(b)

Expiration