

Name: _____ Date: _____

Respiration in Organisms

Q1. Take three test-tubes. Fill $\frac{3}{4}$ th of each with water. Label them A, B and C. Keep a snail in test-tube A, a water plant in test-tube B and in C, keep snail and plant both. Which test-tube would have the highest concentration of CO₂?

Ans. _____

Q2. Write one word for the following:

- i. The air tubes of insects - _____
- ii. Skeletal structures surrounding chest cavity - _____
- iii. Muscular floor of chest cavity - _____
- iv. Tiny pores on the surface of leaf - _____
- v. Small openings on the sides of the body of an insect - _____
- vi. The respiratory organs of human beings - _____
- vii. The openings through which we inhale - _____
- viii. An anaerobic organism - _____
- ix. An organism with tracheal system - _____

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Ans. Snail breathes in oxygen and breathes out carbon dioxide. Hence concentration of CO₂ increases in the test tube. Therefore, Test tube A will have high concentration of carbon dioxide.

In test tube B water plant uses carbon dioxide for synthesizing food and hence there will be less concentration of carbon dioxide compared to test tube A.

In test tube C, carbon dioxide produced by snail is utilized by plant for synthesis of food and oxygen released by plant is utilized by snail for respiration. Hence, concentration of carbon dioxide is least in test tube C.

Q2. Write one word for the following:

- i. The air tubes of insects - **Trachea**
- ii. Skeletal structures surrounding chest cavity - **Ribs**
- iii. Muscular floor of chest cavity - **Diaphragm**
- iv. Tiny pores on the surface of leaf - **Stomata**
- v. Small openings on the sides of the body of an insect - **Spiracles**
- vi. The respiratory organs of human beings - **Lungs**
- vii. The openings through which we inhale - **Nostrils**
- viii. An anaerobic organism - **Yeast**
- ix. An organism with tracheal system - **Ant**