

**DELHI PUBLIC SCHOOL JAMMU**

**SESSION 2024-25**

**MONTH : OCTOBER**

**ASSIGNMENT III**

**CLASS : VII**

**SUBJECT: SCIENCE**

**TOPIC : Respiration in Animals and Plants**

**Q1.** Which of the following is the correct path of air during inhalation?

- a) Nose → Larynx → Pharynx → Trachea → Lungs
- b) Nose → Trachea → Larynx → Pharynx → Lungs
- c) Nose → Pharynx → Larynx → Trachea → Lungs
- d) Nose → Lungs → Trachea → Pharynx → Larynx

**Q2. Assertion (A):** Frogs can breathe through both lungs and skin.

**Reason (R) :** Frogs are aquatic animals and spend their entire life underwater.

- a) Both A and R are true, and R is the correct explanation of A.
- b) Both A and R are true, but R is not the correct explanation of A.
- c) A is true, but R is false.
- d) A is false, but R is true.

**Q3.** What are the differences between aerobic and anaerobic respiration? State its equation.

**Q4.** How do fish obtain oxygen from water?

**Q5.** a) Why is respiration important for living organisms?

b) Describe the process of breathing in humans with the help of diagrams.

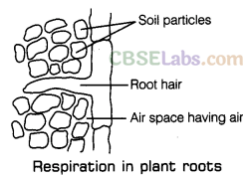
**Q6. Read the following paragraph and answer the questions that follows:**

A gardener noticed that a plant he had planted inside a glass container started to show signs of poor health after a few days. The plant's leaves began to turn yellow, and it seemed weak. However, when the lid was removed and fresh air was allowed into the container, the plant started to recover. When complete combustion of coal and Petroleum takes place, what are the products formed?

- a) All organisms during respiration inhale \_\_\_\_\_ and exhale\_\_\_\_\_.
- b) What could be the reason for the plant showing signs of poor health when it was kept in a closed container?
- c) Explain the process of respiration in plants and how it was affected in this case.

**Q7.** Draw a well labeled diagram of human respiratory system.

**Q8.** Observe the given diagram and answer the following questions:



- a) Which of the following gas diffuses into the root hair and reaches all the cells of the root.
  - i) Oxygen
  - ii) Carbon dioxide
  - iii) Nitrogen
  - iv) None of these
- b) Define root hair.