

HIMALAYA INTERNATIONAL SCHOOL  
ASSIGNMENT -III  
CLASS VI -SCIENCE

Q1.**Case study:** Rohit took an empty plastic bottle, turned it upside down and dipped its open mouth into a bucket filled with water .He then tilted the bottles slightly and made the following observations:

- i. Bubbles of air came out from the bottle.
- ii. some water entered the bottle .
- iii.nitrogen gas came out in the form of bubbles and oxygen got dissolved in water.
- iv. no bubbles formed, only water entered the bottle.

Q1.Which observations is/ are correct?

- a.only i
- b. i &ii
- c. only iii
- d. i & iii

Q2. Which gas is produced by plants during respiration?

- a. Oxygen
- b. Carbon dioxide
- c. Nitrogen
- d.Hydrogen

Q3. Wind is useful in

- a. dispersal of seeds
- b. functioning of gliders and parachutes
- c. winnowing
- d.all of these

Q4. Why does water rise up, when a candle is extinguished by inverting a glass jar?

- a. Because it has more air trapped inside the tumbler
- b. Because it has consumed all the oxygen present inside the jar
- c. Because it has consumed all nitrogen present inside the jar
- d. None of these

Q5. Fill in the blanks.

- A. All living beings exhale\_\_\_\_ gas during respiration.
- B. \_\_\_\_\_is surrounded by a layer of air called atmosphere.

- C. The percentage of nitrogen in air is\_\_\_\_\_.
- D. Air occupies \_\_\_\_\_and has\_\_\_\_\_.

Q6 State whether the following statements are TRUE or FALSE.

- A. Plants respire only at night.
- B. The percentage of carbon dioxide in the atmosphere is 3.3%.
- C. Air is a mixture not a compound.

Q7. Give one word for the following:

- A. Layer of gas that prevent us from UV rays
- B. A process in which combustion of food takes place to release energy and carbon dioxide
- C. The device used to find the direction of wind The basic structural and functional unit of life
- D. The structures that enable a fish to breathe
- E. The period for which a living organism lives
- F. Removal of waste products from body

Q8. Match the columns:

- |                       |                            |
|-----------------------|----------------------------|
| 1. Oxygen gas         | a.4/5th part of air        |
| 2. Nitrogen gas       | b.helps to extinguish fire |
| 3. Carbon dioxide gas | c.water cycle              |
| 4. Water vapour       | d.1/5 part of air          |
| 5. Dust particles     | e.vary from place to place |

Answer the following questions in brief.

- Q9. What are the uses of carbon dioxide?
- Q10. Explain how oxygen is affected by altitude?
- Q11. Why do divers carry oxygen cylinders when they go under water?
- Q12. How is nitrogen utilized by plants?
- Q13. Does soil contain air ?How can you prove that?
- Q14.Draw and explain the oxygen cycle.
- Q15.What is humidity?
- Q16. Why do earthworms come out during the rainy season?
- Q17. What is the composition of air?
- Q18. What is Ozone?
- Q19. Why is oxygen important for the sustenance of life ?
- Q20.Why do we observe water droplets on a glass window pane early in the winter mornings

