

Class: VI

Subject: Biology

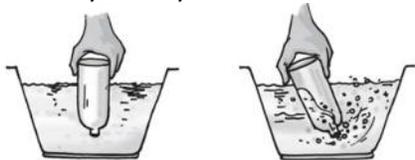
Topic: Air Around Us

No. of Questions: 20

Duration: 60 Min

Maximum Marks: 60

1. Take an empty glass bottle. Turn it, upside down. Now, dip the open mouth of the bottle into the bucket filled with water. Now tilt the bottle slightly. You can see bubbles coming out of the bottle or hear any bubbly sound. Which of the following cannot be inferred from this activity?



- a. Air is everywhere. It is present even in the empty bottle.
- b. Air does not have any color and it is transparent
- c. Air has weight**
- d. Air occupies space

Answer- (c) fact

2. Mountaineers carry oxygen cylinder with them because:

- a. The air is very cold up the mountain
- b. There is less air on the top of the mountain**
- c. They feel happy carrying the oxygen cylinders
- d. Oxygen is required for burning

Answer- (b) There is less air and hence less oxygen.

3. Plants and animals consume oxygen for respiration and produce carbon dioxide. How is this carbon dioxide consumed to balance the carbon dioxide—oxygen balance?

- a. People stop breathing for some time
- b. Plants can be burnt to release oxygen
- c. Plants take in carbon dioxide and exhale oxygen during photosynthesis**
- d. Oxygen comes into the earth's atmosphere from outside.

Answer- (c) This phenomenon maintains the oxygen-carbon dioxide balance in body.

4. We should breathe through the nose and not by the mouth, because _____

- a. it is a bad habit
- b. the air is moisturized when we breathe through mouth
- c. the hair and mucus in our nostrils trap soot and dust particles present in the air**
- d. it is natural phenomenon

Answer- (c) Fact

5. Earth worms come out of the soil during rainy seasons because:

- a. The rain goes into the soil and reaches the water table. The earthworms come out to be relieved of the wet weather.
- b. The rain fills up the space between soil particles. The air comes out; Hence earthworms come out for breathing**
- c. The earthworms come out to move around in the sun
- d. None of the above

Answer- (b) fact

6. This is a wind mill. It uses air for:



- Making it move and thus it is able to generate electricity**
- Making it move to show the direction of the wind
- Making it move to show signals
- Making it move to slow down vehicles

Answer- (a) one form of energy is converted into another form of energy by wind mills.

7. Air plays an important role in water cycle. How?

- Air moves over the oceans
- Air moves over the land
- Air moves to evaporate water which then condenses on cooler layers**
- Air is everywhere.

Answer- (c) fact

8. Plants depend on animals and animals depend on plants. How?

- Plants cannot get water without animals
- Plants use carbon dioxide for preparing food and animals give out carbon dioxide during respiration. Thus a balance is maintained in the oxygen –carbon dioxide level.**
- Plants and animals cannot live without food and shelter.
- None of the above

Answer- (b) This phenomenon maintains the oxygen-carbon dioxide balance in body

9. What is the composition of Nitrogen in air?

- a. 50%
- b. 20%
- c. 1%
- d. **79%**

Answer-(d) Air is a mixture of gases, water vapors and dust particle. It consists of Nitrogen 79%, oxygen 20%, Carbon dioxide 0.03% and other gases also.

10. Which gas in the atmosphere is essential for respiration?

- a. **Oxygen**
- b. Nitrogen
- c. Hydrogen
- d. Carbon Dioxide

Answer- (a) Oxygen is essential for living organisms.

11. what happens to the lump of cotton wool when it is dipped in water?

- a. It evaporates
- b. **it shrinks**
- c. it swells
- d. no effect

Answer- (b) Air is present in cotton wool. When dipped in water, air present in wool escape and it shrinks.

12. The components of air used by green plants to make their food is

- a. nitrogen
- b. **carbon dioxide**
- c. oxygen
- d. other gases

Answer-(b) Plants take carbon dioxide from the atmosphere and prepare their food. This is called Photosynthesis.

13. The layer of air around the earth is known as

- a. **atmosphere**
- b. ozone layer
- c. outer core
- d. inner core

Answer- (a) The earth is surrounded by a layer of gases called the atmosphere. The atmosphere is very important to life on Earth and does many things to protect and survive.

14. Which of the following is false?

- a. Animals use air for respiration
- b. Plants use air to prepare the food
- c. **Water helps in burning of fuel and substances.**
- d. Air helps in the scattering of seeds and pollen of plants

Answer-(c) Air helps in burning of fuel and substances.

15. In which season do the earthworms come out of the soil?

- a. Winter season
- b. **Rainy season**
- c. Summer season
- d. In every season

Answer- (b) Earthworms usually live in burrows and holes in the soil. When it rains heavily, water fills up all the spaces occupied by the air in the soil. In this situation animal living in the soil have to come out for respiration.

16. Which of the following regarding Nitrogen is false?

- a. Nitrogen is used in protein synthesis
- b. Nitrogen is an important constituent of amino acid
- c. Nitrogen is not used in protein synthesis.**
- d. Proteins are required by living organisms to grow and repair their body parts.

Answer-(c) Nitrogen is a part of amino acid and it is used in protein synthesis. Therefore, this statement is false.

17. Fill in the blank.

Air occupies _____.

- a. Space**
- b. No space
- c. both of them
- d. none of the above

Answer-(a) Air occupies space.

18. The component of air which is harmful to living beings are

- a. Nitrogen and carbon dioxide
- b. Dust and water vapors
- c. Dust and smoke**
- d. Smoke and water vapors

Answer- (c) Dust and smoke affect the lungs.

19. What is not true about air?

- a. It makes the windmill rotate
- b. It helps in the movement of aero planes
- c. Birds can fly due to presence of air
- d. It has no role in water cycle.**

Answer- (d) Air has a major role in water cycle.

20. Air is not present at which of these places?

- a. Mountain
- b. Sea level
- c. Valley
- d. **Vacuum**

Answer- (d) Vacuum Place has no air

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