

## WORKSHEET

### CLASS-IX

#### CHAPTER-6, Natural Resources

##### A. Give reasons, why.

1. Nitrogen molecules are converted into nitrates by bacteria in the soil.
2. Ozone layer is getting depleted by man-made compounds.
3. Lichens grow in Darjeeling but not in Delhi.
4. People love to fly kites near the seashore.
5. Carbon dioxide is necessary for plants but we consider it as a pollutant.

##### B. Give one word for the following.

1. A spinning storm rotating around a low-pressure centre. \_\_\_\_\_.
2. Nutrients that circulate between biotic and abiotic components. \_\_\_\_\_.
3. Thinning of the ozone layer. \_\_\_\_\_.
4. Topmost layer of soil. \_\_\_\_\_.
5. Unburnt carbon particles that remain suspended in the air. \_\_\_\_\_.

##### C. Match the following columns.

- |                                    |              |              |
|------------------------------------|--------------|--------------|
| 1. Weathering of rocks.            | Coal.        | Combustion   |
| 2. Production of CO <sub>2</sub> . | Air.         | Strong winds |
| 3. Exhaustive natural resources.   | Plants       | Water        |
| 4. Abiotic components.             | Lichens.     | Petroleum    |
| 5. Biotic components.              | Respiration. | Animals      |

##### D. Choose the correct options.

1. Identify which can pollute the soil
  - a. Organic matter
  - b. Plants
  - c. Water
  - d. Plastic
2. Lichens are sensitive to
  - a. Nitrous oxides
  - b. Sulphur dioxide
  - c. Carbon dioxide
  - d. Ozone
3. Water droplets aggregate around some dust particles that act as
  - a. Nucleus
  - b. Clouds
  - c. Rain
  - d. Condensed water
4. Rainfall patterns depend on
  - a. The underground water table
  - b. The number of water bodies in an area

- c. The density of human population in an area
- 5. The two forms of oxygen found in the atmosphere are
  - a. Water and ozone
  - b. Water and oxygen
  - c. Oxygen and ozone
  - d. Water and carbon dioxide
- 6. Which step is not involved in the carbon cycle?
  - a. Photosynthesis
  - b. Transpiration
  - c. Respiration
  - d. Burning of fossil fuel
- 7. Topsoil contains
  - a. Humus and living organisms only
  - b. Humus and soil particles only
  - c. Humus, living organisms and plants
  - d. Humus, living organisms and soil particles
- 8. Oxygen is harmful for
  - a. Ferns
  - b. Nitrogen fixing bacteria
  - c. Chara
  - d. Mango tree
- 9. Which is not a green house gas?
  - a. Methane
  - b. Nitrogen
  - c. Carbon dioxide
  - d. Nitrous oxide
- 10. Carbon is present in the atmosphere in the form of
  - a. Carbonates
  - b. Limerocks
  - c. Carbon dioxide
  - d. Biomolecules

**E. Higher order Thinking Skills.**

1. 'Some of the factors that are involved in soil formation are also responsible for the soil erosion' explain your views.

2. A farmer followed the practice of sowing cereal crops regularly in his field for several seasons. After some time, he found a decline in cereal production.

- a. What may be the reason for less cereal production in the farmer's field?
- b. How can the farmer increase production in his field?

3. River water nearby Karan's house is highly polluted and unfit for use. Karan is very much concerned about it

- a. Which activities do you think may be responsible for pollution of river water?
- b. Suggest some initiatives that Karan can take to stop the pollution.

4. Rita noticed severe water shortage in her village during her visit in the summer vacation.

- a. Give reasons for water shortage in villages.
- b. What ways can she suggest to the villagers to solve the problem of water shortage?

5. In the hilly area, Sumit noticed steep hills farmed in steps. He discussed the reasons and benefits of this practice with the villagers.

- a. Why is there a need of step farming in hilly areas?
- b. What is step farming?
- c. Can you suggest some other method to prevent soil erosion in hills?