

CHAPTER-15

NATURAL RESOURCES

WORKSHEET

VERY SHORT ANSWER TYPE [1MARK]

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. 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
11. The atmosphere of the earth is heated by radiations which are mainly
 - a. Radiated by the sun
 - b. Re-radiated by land
 - c. Re-radiated by water
 - d. Re-radiated by land and water
12. If there were no atmosphere around the earth, the temperature of the earth will
 - a. Increase
 - b. Go on decreasing
 - c. increase during day and decrease during night
 - d. Be unaffected

SHORT ANSWER TYPE [2 MARKS]

1. What causes winds?
2. Which gets heated faster land or water? Why?
3. Define air-pollution?
4. Name two diseases caused due to an increased content of pollutants in the air produced due to the burning of fossil fuels.
5. What are the types of natural resources? Describe in detail with an example of each.
6. How does fossil fuel cause air pollution?
7. How are clouds formed?
8. What is meant by Land Fills?

SHORT ANSWER TYPE [3 MARKS]

1. What are biogeochemical cycles? Explain the cycling of carbon in biosphere.
2. What is 'Water Cycle'? Explain the process of water cycle.
3. Write a short note on 'Nitrogen Fixation'
4. How can we stop Ozone depletion?
5. What are the different states in which water is found during the water cycle?
6. What is the greenhouse effect? Explain with the help of a diagram.
7. List any three human activities that you think would lead to air pollution.

8. What is biosphere? Describe the three components of biosphere.
9. What is meant by deforestation? Describe in detail its causes and effects.

LONG ANSWER TYPE [5 MARKS]

1. Discuss the consequences of the increase in the concentration of carbon dioxide and other Green House gases in the atmosphere.
2. Acid rain and smog are said to be the consequences of air pollution. How are they caused? What are the ill effects of breathing polluted air on human health?
3. Describe the cycling of Phosphorus in nature with the help of a diagram.
4. Explain in detail the factors contributing for soil formation.
5. What is meant by e-waste? Suggest 2 ways to reduce the pollution caused due to e-wastes.
6. Define soil pollution. Give its causes and effects. Suggest any 3 methods to reduce soil pollution.
7. What is meant by Atmosphere? Give its composition. What causes air pollution? What are the effects of air pollution?

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?

6. Tina saw reduction in greenish layer of lichens at the bark of trees at the biology garden of the school. The garden was few metres away from diesel generator placed for electricity backup. She immediately informed the school authorities to check the pollution level of diesel and kerosene used in the generator.
- (a) How reduction in Lichens layer is related to pollution?
 - (b) What measures should be taken by school authorities to check the reduction?
 - (c) What qualities are shown by Tina by informing school about the Lichens?

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