

CHAPTER 11

NATURE'S TREASURES

NCERT EXERCISE AND SOLUTIONS - SCIENCE







P1







P2

Q. 1. Figure shows items related to natural resources. Match them with their jumbled up names. Make another table and write the names of these resources. Classify these resources as renewable or non-renewable.

Item	Jumbled up name
	ocrk
	refost
	ndiw
	atwre

ANSWER:

Item	Jumbled up name	Name	Resources	Renewable or Non-renewable Resource
	ocrk	Rock	Minerals	Non-renewable
	refost	Forest	Forest	Renewable
	ndiw	Wind	Atmosphere	Renewable
	atwre	Water	River, Pond	Renewable



Q. 2. State whether the following statements are True [T] or False [F]. If False, correct them.

- (i) Nature has all the resources to meet human needs. []
- (ii) Machines are a resource found in nature. []
- (iii) Natural gas is a non-renewable resource. []
- (iv) Air is a renewable resource. []

ANSWER:-

- (i) Nature has all the resources to meet human needs. [T]
- (ii) Machines are a resource found in nature. [F]
Correction: Machines are human-made resources.
- (iii) Natural gas is a non-renewable resource. [T]
- (iv) Air is a renewable resource. [T]

Q. 3. Fill in the blanks using the most appropriate option-

- (i) A fuel that is commonly used in two wheelers like scooters or bikes is
 - (a) Kerosene
 - (b) Petrol
 - (c) Diesel
 - (d) LPG
- (ii) An example of a renewable resource is
 - (a) Coal
 - (b) Water
 - (c) Natural gas
 - (d) Petrol

ANSWER:-

- (i) A fuel that is commonly used in two wheelers like scooters or bikes is Petrol.
 - (b) Petrol
- (ii) An example of a renewable resource is Water.
 - (b) Water

Q. 4. Classify the following as renewable or non-renewable resources coal, natural gas, forests and minerals.

ANSWER:-

Coal: Non-renewable, Natural gas: Non-renewable, Forests: Renewable, Minerals: Non-renewable

Q. 5. Why do we say that petroleum is a non-renewable resource?

ANSWER:-

Petroleum is a non-renewable resource because it takes millions of years to form from buried remains of microorganisms and plants. Once used, it cannot be replaced within a human lifetime.



Q. 6. It is difficult to regrow forests. Justify this statement.

ANSWER:-

Regrowing forests is challenging because trees take years to mature. Deforestation can degrade the soil, making it less fertile, and human activities like urbanization and farming can further slow reforestation.

Q. 7. Make a list of five daily activities in which you use natural resources. Suggest ways by which you can reduce their use.

ANSWER:-

Daily Activity	Natural Resource Used	Ways to Reduce Use
Drinking water	Water	Use a water-efficient faucet
Driving a car	Petroleum	Use public transport or cycle
Cooking	Natural gas	Use solar cookers
Using electricity	Coal, natural gas	Use energy-efficient appliances
Using paper	Trees (forests)	Use digital documents

Q. 8. List four activities that are possible due to the presence of air.

ANSWER:-

Breathing – Living beings need oxygen from the air to survive.

Burning – Air provides oxygen, which is essential for combustion.

Flying – Birds, airplanes, and insects rely on air for lift and movement.

Sound Transmission – Air carries sound waves, allowing us to hear.

Q. 9. How can you contribute towards enhancing the green cover of your locality? Make a list of actions to be taken.

ANSWER:-

Ways to Enhance Green Cover in Your Locality:

1. Plant More Trees – Participate in tree-planting drives and grow plants in open spaces.
2. Take Care of Existing Plants – Water, protect, and nurture trees to ensure healthy growth.
3. Encourage Community Participation – Motivate neighbors and friends to plant trees and create green spaces.
4. Avoid Deforestation – Prevent unnecessary cutting of trees and promote sustainable practices.
5. Grow Plants at Home – Maintain a home garden with indoor and outdoor plants.
6. Support Green Initiatives – Join environmental groups and campaigns for afforestation.
7. Reduce Pollution – Minimize air and soil pollution, which can harm plant life.



Q. 10. In the given illustration, we see that food is being cooked. Answer the following questions-

- (i) What type of energy is being used for cooking?
- (ii) Name one benefit and one drawback of using this type of energy for cooking.

ANSWER:-

- (i) The energy used for cooking in the illustration is solar energy.

Benefit:

Environmentally Friendly – Solar energy is a clean, renewable source that does not cause pollution or greenhouse gas emissions.

Drawback:

Weather Dependent – Solar cooking relies on sunlight, making it unusable on cloudy days or at night.

Q. 11. Cutting down trees on a large scale impacts the quality of the soil. Why do you think it is so?

ANSWER:-

Cutting down trees harms soil quality because tree roots hold the soil together, preventing erosion. Without trees, rain can wash away the fertile topsoil. Additionally, decomposed leaves enrich the soil with nutrients, improving its fertility and structure.

Q. 12. Explain two ways in which human activities pollute the air. Propose one action which can help in reducing air pollution.

ANSWER:-

Burning fossil fuels in vehicles and factories releases harmful pollutants like **carbon monoxide** and **sulfur dioxide** into the air.

Deforestation reduces the number of trees that absorb **carbon dioxide**, leading to higher greenhouse gas levels.

Actions to Reduce Air Pollution:

Use **public transport** and **electric vehicles** to reduce dependence on fossil fuels.

Plant more trees to absorb carbon dioxide and improve air quality.

Switch to renewable energy sources like solar and wind power.

Reduce industrial emissions by using cleaner technologies.

Q. 13. A family uses solar panels to generate electricity, a gas stove to cook food and a windmill for pumping water from a well. What would happen if there were no sunlight for a week?

ANSWER:-

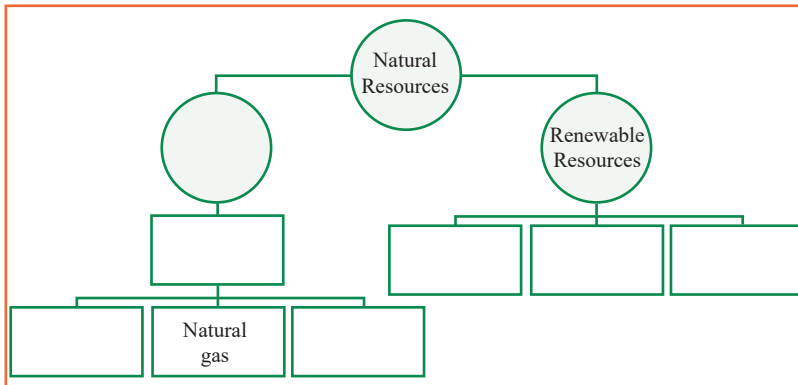
If there were no sunlight for a week:

Solar panels would stop generating electricity, forcing the family to use alternative power sources.

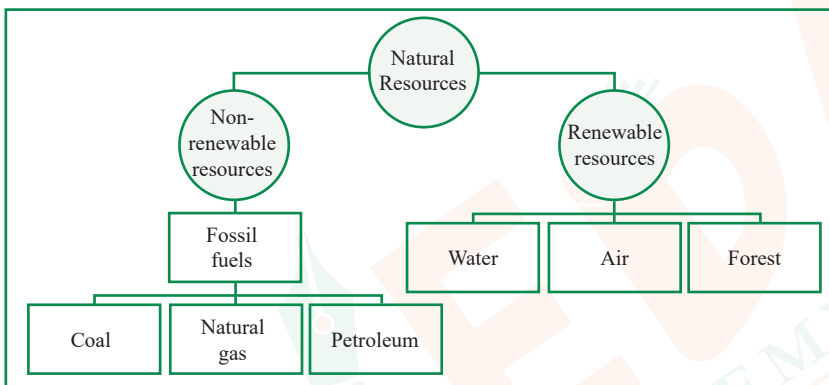
Plant growth would slow down as photosynthesis cannot occur without sunlight.



Q. 14. Fill up the blanks using the following terms (fossil fuels, forest, air, petroleum, coal, water and non-renewable resource)



ANSWER:-



Q. 15. There is an increasing demand of trees to meet the requirements of industries and for housing. Therefore, trees are being felled. Is it justified? Discuss and prepare a brief report.

ANSWER:-

The rising demand for trees in industries and housing is understandable but not justified. Trees are essential for ecological balance as they provide **oxygen**, support **wildlife**, and prevent **soil erosion**. Large-scale deforestation causes **biodiversity loss**, **climate change**, and **water cycle disruptions**.

Sustainable Solutions:

Use **alternative materials** to reduce dependence on trees.

Enforce **strict regulations** on tree cutting.

Promote **reforestation** to restore green cover.

Balancing economic growth with environmental conservation is crucial for a sustainable future.

<https://t.me/veda6to8>



Q. 16. Propose a plan to use less water in your school. What steps would you take to make this plan happen and how would it help the environment?

ANSWER:-

Plan to Use Less Water

Actions to Save Water:

- Install water-efficient faucets and toilets.
- Fix leaks quickly to prevent wastage.
- Set up rainwater harvesting systems.
- Educate students and staff on water conservation.
- Reuse greywater for gardening.

Steps to Implement:

1. Audit water usage to find wastage areas.
2. Collaborate with experts to install water-saving devices.
3. Organize workshops and awareness campaigns.
4. Monitor usage and set reduction goals.
5. Encourage student-led conservation initiatives.

Environmental Benefits:

- Reduces pressure on water sources.
- Saves energy used for water treatment.
- Supports sustainability and responsible water use.

