

NCERT QUESTIONS WITH SOLUTION

1. In the given figure shows the 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

Ans.

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

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.

Ans. True

(ii) Machines are a resource found in nature.

Ans. False

Correct Statement: Machines are man-made resources.

(iii) Natural gas is a non-renewable resource.

Ans. True

(iv) Air is a renewable resource.

Ans. True

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

Ans. (b) Petrol

(ii) An example of a renewable resource is _____.

- (a) Coal (b) Water
(c) Natural gas (d) Petrol

Ans. (b) Water

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

Renewable	Non-renewable
-	Coal
Forests	Natural gas
-	Minerals

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

Ans. Petroleum is considered a non-renewable resource because it takes millions of years to form from the remains of micro-organisms and plants that get buried deep inside the Earth. Once extracted and used, it cannot be replenished.

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

Ans. Regrowing forests is difficult because it takes many years for trees to mature.

Additionally, the soil may become degraded, losing its nutrients and structure due to deforestation, making it less suitable for new plant growth. Human activities such as urban development and agriculture can also hinder reforestation efforts.

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

Ans.

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

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

Ans. Four activities that are possible due to presence of air

- Breathing
- Generating electricity through wind turbines
- Transportation through aeroplanes.
- Flying kites

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

Ans. List of actions to be taken

- Encourage neighbours to grow plants in their gardens.
- Collaborate with local schools to create green initiatives.
- Advocate for the protection of existing trees and green spaces.
- Participate in community tree planting drives.
- Plant trees in local parks and open spaces.

10. In the given illustration, we see that food is being cooked.



Answer the following questions:

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

Ans. (i) Solar Energy

- Benefit: Solar energy is a renewable and clean source of energy. Hence it is environment friendly.

Drawback: Dependence on Weather, Solar energy cannot be used during cloudy days or at night, which limits its reliability and convenience.

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

Ans. Without trees, the soil can be washed away by rain, leading to the loss of fertile topsoil. Furthermore, fallen leaves from trees decompose and add organic matter to the soil, enhancing its fertility and structure. Cutting down trees impacts the quality of soil because tree roots help to bind the soil together, preventing erosion.

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

Ans. (i) Deforestation reduces the number of trees that can absorb carbon dioxide, increasing the concentration of greenhouse gases.

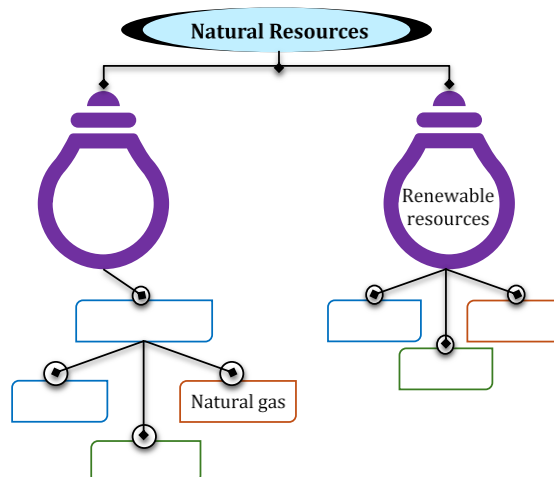
(ii) Burning fossil fuels in vehicles and factories releases harmful pollutants like carbon monoxide and sulphur dioxide into the air.

Action to reduce air pollution:
Promote the use of public transport and electric vehicles to decrease the number of fossil fuel-powered vehicles on the road.

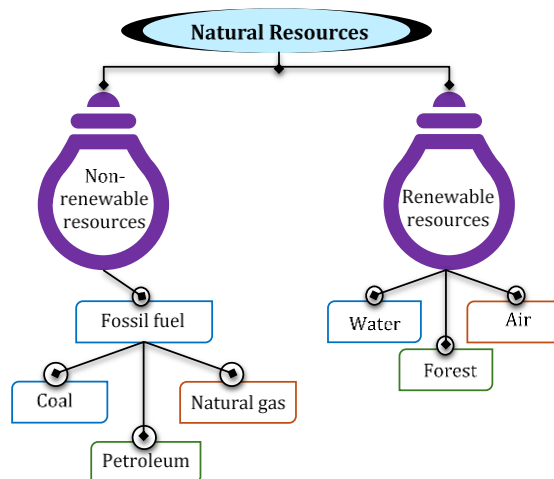
13. A family uses solar panels to generate electricity, a gas stove to cook food and a windmill for pumping water from a well. What would happen if there were no sunlight for a week?

Ans. If there were no sunlight for a week, the solar panels would not be able to generate electricity, leading the family to rely on alternative sources of power. Additionally, the growth of plants would be affected due to the lack of sunlight for photosynthesis.

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



Ans.



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.

Ans. Trees play a crucial role in maintaining ecological balance by providing oxygen, supporting wildlife, and preventing soil erosion. Large scale deforestation can lead to loss of biodiversity, climate change, and disruption of water cycles.

Sustainable practices such as using alternative materials, implementing strict regulations on tree felling, and promoting reforestation can help balance economic development with environmental conservation.

- 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?

Ans. Plan to Use Less Water

- Use waste water for gardening purposes.
- Implement a rainwater harvesting system.

- Install water-efficient faucets in toilets.

Steps to Implement the Plan

- Monitor water usage regularly and set reduction targets.
- Encourage student-led initiatives for water conservation.
- Collaborate with local authorities and experts to install water saving devices.

Environmental Benefits

- Promotes sustainability and responsible water usage within the community.
- Decreases the energy used in water treatment and distribution.