



Energy Resources: Renewable and Non-Renewable

A. Choose the Correct Answer:

1. What are renewable energy resources?

- a) Energy sources that cannot be replaced
- b) Energy sources that can be replenished naturally
- c) Energy sources that pollute the environment
- d) Energy sources that are man-made

2. Which of the following is a non-renewable energy resource?

- a) Solar energy
- b) Wind energy
- c) Coal
- d) Hydropower

3. Which of the following is an example of a renewable energy resource?

- a) Natural gas
- b) Petroleum
- c) Geothermal energy
- d) Diesel

B. Fill in the Blanks:

1. Energy resources that can be replenished naturally are called _____ resources.
2. _____ is a non-renewable energy resource formed from dead plants and animals over millions of years.
3. _____ energy uses the heat from inside the Earth to generate power.

C. Case Study:

Riya and her classmates visited a science exhibition.

- They saw a model of a solar panel that uses sunlight to generate electricity.
- Another exhibit showed wind turbines rotating with the force of the wind to generate energy.
- They also learned about coal and petroleum, which are used to produce electricity but cannot be replenished.
- Their teacher explained that solar and wind power are renewable resources, while coal and petroleum are non-renewable.



Case Study Questions:

1. What type of energy resource is the solar panel using?
2. What energy resource was demonstrated by the wind turbines?
3. Why are coal and petroleum classified as non-renewable resources?
4. Name one benefit of using renewable energy over non-renewable energy.

D. Short Answer Questions:

1. What are renewable energy resources?
2. Name two non-renewable energy resources.
3. State one advantage of using renewable energy.

E. Long Answer Questions:

1. Differentiate between renewable and non-renewable energy resources with examples.
 2. Why is it important to use renewable energy resources? Explain with reasons.
 3. Describe three types of renewable energy and their uses.
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