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Class-8th

(Based on N C E R T pattern)

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Geography

Mineral and power Resources

Question 1

What is wind power?

Solution:

Wind power is the fastest-growing energy source in the world. A wind turbine works the opposite of a fan. Instead of using electricity to make wind, a turbine uses wind to make electricity. The wind turns the blades, which spin a shaft, which connects to a generator and makes electricity. The electricity is sent through transmission and distribution lines to a substation, then on to homes, business houses and schools.

Question 2

What is biogas?

Solution:

Organic waste such as dead plant and animal material, animal dung and kitchen waste can be converted into a gaseous fuel called biogas. Biogas is essentially a mixture of methane and carbon dioxide. The organic waste is decomposed by bacteria in biogas digesters to emit biogas. Biogas is an excellent fuel for cooking and lighting. Biogas plants produce huge amounts of valuable organic manure each year.

Question 3.

Name and describe briefly methods of extraction.

Answer:

Mining, drilling and quarrying are methods of extraction. Mining is a process of extraction of taking out minerals from rocks under the earth's surface.

- Open cast mining: In this, minerals lying at shallow depths are taken out by removing the surface layer.
- Shaft mining: In this, deep bores (called shafts) are made to reach mineral deposits lying at large depths.
- Drilling: In this, deep wells are bored to take out minerals.
- Quarrying: It is the process of extraction in which minerals lying very close to the surface are extracted just by digging them out.

Question 4.

Where are minerals found?

Answer:

Minerals are found in different types of rocks. Metallic minerals are usually found in igneous and metamorphic rocks that form large plateaus. Examples: iron ore is found in north Sweden, copper and nickel in Canada. In igneous and metamorphic rocks in South Africa, iron, nickel, chromites and platinum are found. Non-metallic minerals are found in sedimentary rock formations. Limestone deposits are found in France. Mineral fuels such as coal and petroleum are found in sedimentary strata.

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