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Geography L3-Ingredients of Modern Industry

Mineral ores: minerals in the raw state from which metals are profitably extracted are called mineral ores.

1. *What is a mineral?*

A mineral is a naturally occurring substance on the earth having a definite chemical composition.

2. *Give two examples each, of ferrous and non-ferrous minerals.*

Ferrous minerals are iron ore, manganese ore, chromite, pyrite, tungsten.

Non-ferrous minerals are Gold, Silver, Copper, Lead, and Bauxite

3. *Name the different types of mining. Define them.*

Mining is of three types – Open cast mining, shaft mining and off-shore drilling.

Open cast mining: involves the removal of overlying materials to extract the minerals from a shallow depth of the earth.

Shaft mining: refers to the construction of vertical or horizontal shaft to extract minerals from deep under the earth.

Off-shore drilling: is a method of mining where deep bores are dug into the earth to extract oil and natural gas from under the earth or from off-shore regions.

4. *Mention a few ways in which minerals can be conserved.*

- By using alternatives or substitute
- Re-cycling, re-using the low grade ores
- Reducing the consumption
- Using better mining methods
- Reduction in export of quality ores

5. *Name the leading producers of petroleum in the world.*
6. *Which countries are the largest producers of petroleum in the world?*

Middle East countries of the world like Iran, Iraq, Saudi Arabia and Qatar are the leading producers of petroleum.

7. *Mention the leading producers of Hydel power in the world.*

Some of the leading producers of Hydel power in the world are Norway, Sweden, USA, Brazil and China.

8. *From which two minerals is nuclear energy produced?*

Uranium and Thorium are the two minerals from which nuclear energy is produced.

9. *What are the raw materials used in Bio-Gas plant?*

Bio-Gas plants use human waste, animal waste and farm waste to convert it into gaseous fuel called Bio-Gas.

10. *State the importance of energy resources.*

Energy is a pre-requisite of modern industry. It is required for domestic purposes as well as for human activities like agriculture, industry, transport, communication and defense purposes.

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