

# Chapter-3 Minerals and Power Resources

- Summary:-

- i. *A naturally occurring substance that has a definite chemical composition is a mineral.*
  - ii. *Metallic minerals contain metal in raw form.*
  - iii. *Non-metallic minerals do not contain metals.*
  - iv. *The process of taking out minerals from rocks buried under the earth's surface is called mining.*
  - v. *Minerals that lie near the surface are simply dug out, by the process known as quarrying.*
  - vi. *Electricity from coal is called thermal power.*
  - vii. *Coal is therefore referred to as Buried Sunshine.*
  - viii. *Petroleum and its derivatives are called Black Gold.*
  - ix. *Wind is an inexhaustible source of energy.*
  - x. *Heat energy obtained from the earth is called geothermal energy.*
  - xi. *Energy generated from tides is called tidal energy.*
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- Answer the following question:-

1. *Name any three common minerals used by you everyday?*

*Common minerals used by us in everyday life are salt, graphite and iron.*

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2. *What is an ore? Where are the ores of metallic minerals generally located?*

*Rock from which minerals are mined is known as ore. It is a collection of different minerals which are extracted from it.*

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3. *Name two regions rich in natural gas resources.*

*Two regions rich in natural gas resources are:*

1. *Russia*
  2. *Norway*
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4. *Which source of energy would you suggest for:*

*rural areas:*

*I would suggest the use of solar energy in rural areas*

*coastal areas:*

*I would suggest the use of wind energy in coastal areas*

*Arid region:*

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5. *Give 5 ways in which you can save energy at home?*

*5 ways in which we can save energy at home are:-*

- i. *turn of light and fan when not in use*
  - ii. *do not leave the stove burning when cooking not in use*
  - iii. *use pressure cooker to cook food*
  - iv. *use LED's and CFL's in the place of yellow regular bulbs.*
  - v. *educate others about energy saving.*
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• *Give reason:-*

1. *Environment aspects must be carefully looked into before building huge dams.*

*It should be because many people are depended on the river who live around are very much affected with the construction of these dams as the water flow is reduced in a river that affects their agriculture as well as the aquatic life.*

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2. *Most industries are located around coal mines.*

*Most industries are located around coal mines because as coal is used to produce electricity for industries and it is easier and cheaper when industries are cemented near coal mines.*

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3. *Petroleum is referred to as "black gold".*

*Petroleum is referred as black gold because it is a very important in industries as it is used as fuel and lubricants. It is the refined to produce hundreds of products including diesel, petrol, kerosene, wax, plastics, and lubricants.*

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4. *Quarrying can become a major environmental concern.*

*Quarrying can become a major concern continuous use of land for quarrying could result in the complete exhausting of the resources from that area as well as also affect the soil and flora of the area.*