

Std - V

Sub - Science

Rocks and Minerals

A. State whether the following statements are true or false :-

1. Coal is a metallic mineral. - **False**
2. Slate is formed from shale. - **True**
3. Pumice is light and can float on water. - **True**
4. Petroleum is a fossil fuel. - **True**
5. The Taj Mahal is made of granite. - **False**

B. Match the following :-

1. Sedimentary rock - **shale**
2. Igneous rock - **pumice**

3. Fossil fuel - coal
4. Ore - bauxite
5. Metamorphic rock – quartzite

C. Answer the following questions :-

1. What are rocks made up of?






Ans - Rocks are made up of one or many kinds of minerals.

2. How many types of rocks are there? Give two examples of each type of rock.

Ans - There are three types of rocks :-

- Igneous : eg. Granite , pumice
- Sedimentary :eg. Sandstone , shale
- Metamorphic: eg. Marble , quartzite

TYPES OF ROCKS

<i>IGNEOUS</i>		<i>SEDIMENTARY</i>		<i>METAMORPHIC</i>	
					
Granite	Scoria	Sandstone	Limestone	Marble	Slate
					
Pumice	Obsidian	Shale	Conglomerate	Gypsum	Quartzite
					Gneiss

3. Name the fossil fuel which is also known as black gold. Where is it extracted in India?

Ans - Petroleum is the fossil fuel which is also known as black gold. It is extracted from many places in India like Digboi in Asom , Mumbai High in Mumbai and Kalol and Ankleshwar in Gujarat.



4. Why is coal also called a fossil fuel?

Ans - Coal is formed from the dead remains (fossils) of plants. That's why coal is also called a fossil fuel.



5. Write one use of each of the following.

(a) Marble - **for flooring in houses**

(b) Quartzite - **to make watches**

(c) Slate - **building roof**

(d) Coal - **as fuel for generating electricity**

(e) Petroleum - **to run vehicles**

6. How are sedimentary rocks formed? Give examples of sedimentary rocks.

Ans - Sedimentary rocks are formed by sediments that are deposited at the bottom of lakes , seas and oceans. The sediments get compressed over a long period of time into solid layers of rocks. Eg. Shale , sandstone.



7. How are metamorphic rocks formed? Give examples of metamorphic rocks.

Ans - When igneous or sedimentary rocks are subjected to extreme heat and pressure , they

undergo changes to form metamorphic rocks.
Eg. Slate , gneiss and marble.



8. How is coal formed? Name the different types of coal.

- Coal was formed from the remains of dead plants which got buried in swamps and have been subjected to intense pressure for millions of years .
- They were cut off from oxygen.
- Thus the carbon content changed into coal.

Type of coal -

- (i) Peat (ii) Lignite
(iii) Bituminous (iv) Anthracite



9. How can you conserve natural resources?

Ans - Here are some ways to conserve natural resources :-

- Use of alternative source of energy such as solar and wind energy.
- Practice of judicious ways to conserve water in our homes.
- Rain harvesting.
- Use of bio gas and bio fuels.
- Use of public transport instead of individual vehicles.

- Refuse, reduce, reuse, and recycle. Cut down on what you use.

10. Write a short note on igneous rocks.

Ans - Igneous rock is one of the three main rocks type. It is formed through cooling and solidification of magma and lava.

Granite , basalt , pumice are some of the examples of igneous rocks.

