## <u>Std - V</u> Sub - Science

# **Rocks and Minerals**

### <u>A. State whether the following statements are</u> <u>true or false :-</u>

- 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 :-**

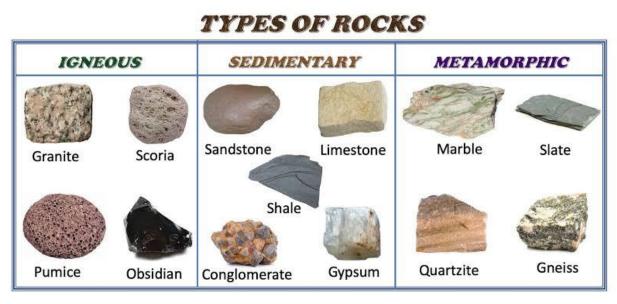
1. What are rocks made up of?

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



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.

# <u>Type of coal</u> -(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.

