

Exercises

A. Tick the correct option:

1. The rocks formed from Magma are called_____ rocks.

Answer- Igneous

2. Taj Mahal is made up of_____.

Answer- Marble

3. _____ is rich in humus.

Answer- Topsoil

4. Soil is used to make_____.

Answer- all of these

5. _____ is not a gemstone.

Answer- Copper

B. Short Answer Type Questions:

1. Name the factors on which the type of igneous rocks formed depend.

Answer- The type of igneous rocks formed depends on the type of minerals the magma contains and the rate at which it cools down.

2. What are sediments?

Answer- All rocks on the earth's surface slowly break down into small pieces. These pieces are called sediments.

3. How are sediments moved from one place to another?

Answer- Sediments are moved and settled at another place by running water, wind and gravity.

4. Metamorphic rocks are made up of which rocks?

Answer- Metamorphic rocks are made up of igneous or sedimentary rocks.

5. What does soil consists of?

Answer- Soil is consist of rock particles of different sizes and remains of dead plants and animals.

C. Long Answer Type Questions:

1. How are igneous rocks formed?

Answer - Igneous rocks are formed by cooling and hardening of molten rocks called magma which is present deep under the earth's surface.

2. Describe the formation of sedimentary rocks.

Answer - Rocks on the earth's surface slowly break down into small pieces called sediments. These sediments moved from one place to another and get deposited in layers at the bottom of lakes and oceans. These layers get compressed with time and the bottom layers slowly turn into Sedimentary rocks.

3. What is the process of formation of soil?

Answer - The process of soil formation is slow, long and continuous. It is formed by weathering and breaking of rocks. This is a slow natural process during which large rocks are broken into fine particles by wind and water.

4. Give at least five uses of soil.

Answer - The uses of soil are as follows:

- i) It supports growth of plant.
- ii) It is a home to many microorganisms, insects and worms.
- iii) Large deposits of minerals and metals are present in soil.
- iv) It is used for making pots, bricks, utensils etc.
- v) It stores underground water.

5. How is coal formed?

Answer - Coal is a sedimentary rock formed from the remains of plants. Millions of years ago there were thick forest on the earth, growing in swamps. More and more trees died on the top, squeezing those that were below. Due to heat they gradually change into coal.

D. Fill in the blanks :

- 1. Igneous rocks are also called fire rocks.
- 2. Magma that reaches the surface of the earth is called Lava.
- 3. Bedrock forms the lowermost layer of soil.

4. The slow natural process of breaking of large rocks into fine particles by wind and water is called weathering.

5. CNG is an alternative to automobile fuel.

E. State True or False:

1. Iron is extracted from ore. True.

2. Granite wears out easily. False.

3. The edges of obsidian are very sharp. True.

4. Limestone is insoluble in water. True.

5. Gneiss is formed from an igneous rock. False.

6. Petroleum is easily available and should be used more and more. False.

F. Match the columns:

Column A Column B

- | | | |
|-----------------|---|-----------------------|
| 1. Basalt | - | construction material |
| 2. Pumice | - | scrubber |
| 3. Sandstone | - | building stone |
| 4. Conglomerate | - | ornamental stone |
| 5. Gypsum | - | Plaster of Paris |
| 6. Quartzite | - | stone to make statues |

G. Give two examples each of :

- | | | |
|----------------------------|--------------------|------------------|
| 1. Metallic minerals - | <u>iron</u> , | <u>gold</u> |
| 2. Non-metallic minerals - | <u>diamond</u> , | <u>ruby</u> |
| 3. Igneous rocks- | <u>granite</u> , | <u>pumice</u> |
| 4. Metamorphic rocks - | <u>marble</u> , | <u>slate</u> |
| 5. Sedimentary rocks - | <u>sandstone</u> , | <u>limestone</u> |

H. Puzzle time :

1. Guess the stone from its uses:

- Stone used to make chalk and glass - Limestone
- Kitchen slabs are made of this stone - Granite
- It is used to make bricks and tiles - Shale
- This stone is used to make tools - Obsidian
- Blackboards are made up of this stone - Slate

2. Who am I?

- a) I am formed of lava froth. I am light as a sponge and have small air holes. - Pumice
- b) I am a lightweight sedimentary rock made up of calcite. - Limestone
- c) I am a soft stone made up of deposits of clay and mud particles. - Shale
- d) I am made up of granite I shine because I contain mica. - Gneiss
- e) I am the light coloured layer of soil below the topsoil. - Subsoil

