

Class 7 Geography

Social Science

Chapter 2 Inside Our Earth

Question 1. Answer the following questions briefly.

- (i) What are the three layers of the earth?**
- (ii) What is a rock?**
- (iii) Name three types of rocks.**
- (iv) How are extrusive and intrusive rocks formed?**
- (v) What do you mean by a rock cycle?**
- (vi) What are the uses of rocks?**
- (vii) What are metamorphic rocks?**

Answer: (i) The three layers of the earth are:

- Crust
- Mantle
- Core

(ii) A rock is a natural mass of mineral matter that makes up the earth's crust.

Rocks can be of different colour, size and texture.

(iii) Three types of rocks are:

- Igneous rocks also known as primary rocks.
- Sedimentary rocks.
- Metamorphic rocks.

(iv) When the molten lava comes on the earth's surface, it rapidly cools down and becomes solid. Rocks formed in this way on the crust are extrusive igneous rocks.

Sometimes the molten magma cools down deep inside the earth's crust. Solid rocks so formed are actually intrusive igneous rocks.

(v) One type of rock changes to another type under certain conditions in a cyclic manner. This process of transformation of the rock from one to another is known as the rock cycle. Let's understand it through example—
Igneous rocks change into sedimentary rocks. When the igneous and sedimentary rocks are subjected to heat and pressure, they change into metamorphic rocks. The metamorphic rocks which are still under great heat and pressure melt down to form molten magma. This molten magma again can cool down and solidify into igneous rocks.

- (vi) Hard rocks are used for making roads, houses and buildings. Stones are used in many games, such as seven stones (pitthoo), hopscotch (stapu/kitkit), Five stones (gitti).
- (vii) When the igneous and sedimentary rocks are subjected to heat and pressure they change into metamorphic rocks. For example, clay changes into slate and limestone into marble.

(v) The thinnest layer of the earth is

(a) Crust

(b)

Mantle

(c) Core.

Answer: (i)–(a), (ii)–(b), (iii)–(b), (iv)–(a), (v)–(a).

Q. 3. Match the skill:

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|---------------|--|
| (i) Core | (a) Earth's surface |
| (ii) Minerals | (b) Used for roads and buildings |
| (iii) Rocks | (c) Made of silicon and alumina |
| (iv) Clay | (d) Has definite chemical composition |
| (v) Slal | (e) Innermost layer |
| | (f) Changes into slate |
| | (g) Process of transformation of the roc |

Ans. (i)–(e), (ii)–(d), (iii)–(b), (iv)–(f), (v)–(c).

(ii) Sedimentary rocks are

sediments.

(iii) Limestone is changed into marble.

Answer: (i) To reach the centre of the earth one will have to dig a hole 6000 km. deep on the ocean floor. This is quite impossible and therefore we cannot go to the centre of the earth.

(ii) Rocks break down into small fragments known as sediments. These sediments are transported and deposited by wind, water, etc.