

**QUESTION 1.** Answer the following questions briefly.

**(i) What are the three layers of the earth?**

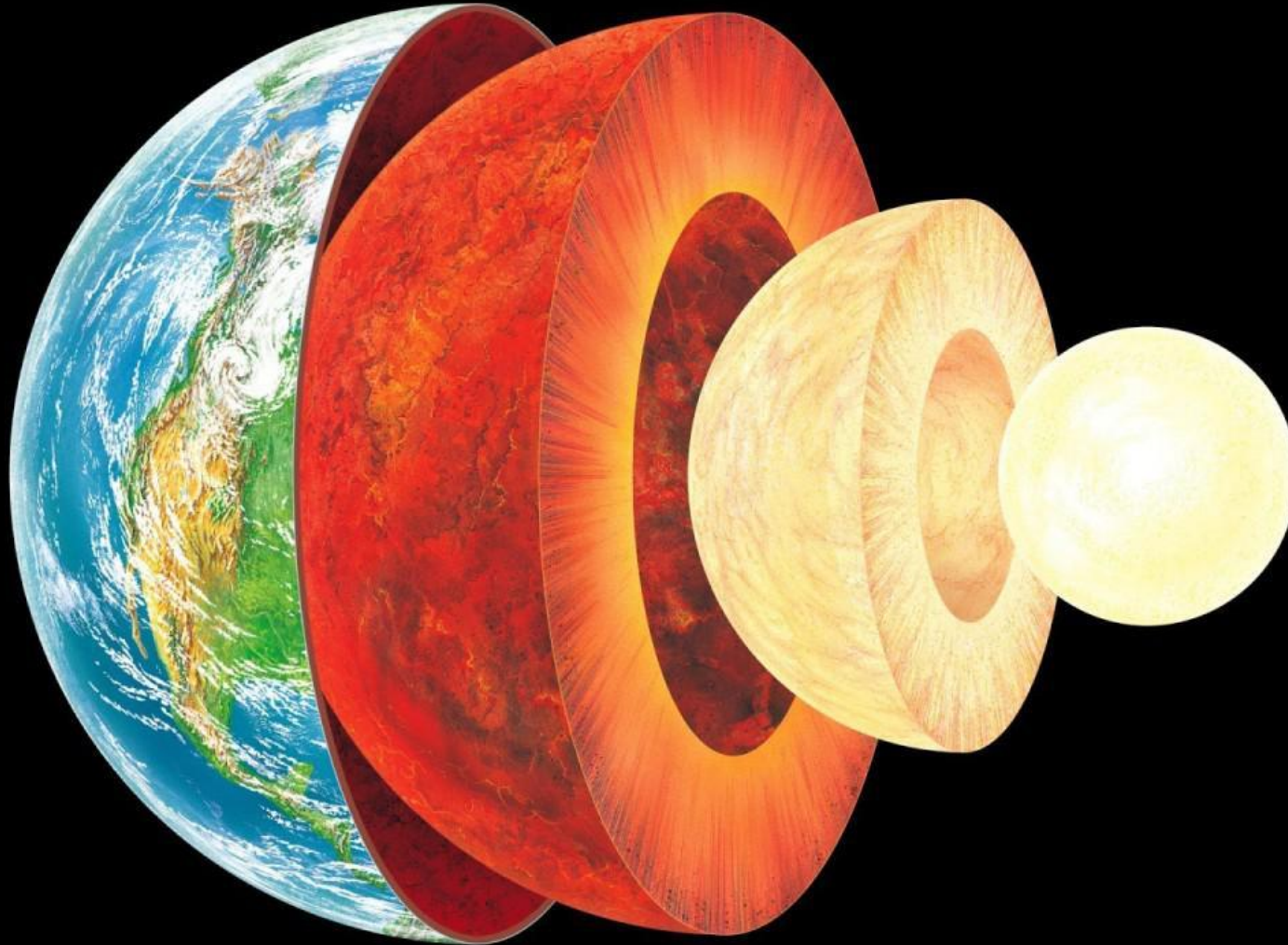
**ANSWER:**

(i) The three layers of the earth are:

- 1. CRUST**
- 2. MANTLE**
- 3. CORE**

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(ii) What is a rock?

## ANSWER:

- A rock is a natural mass of mineral matter that makes up the earth's crust. Rocks can be of different color, size and texture.



(iii) Name three types of rocks.

## **ANSWER:**

➤ Three types of rocks are:

- 1. IGNEOUS ROCKS ALSO KNOWN AS PRIMARY ROCKS.**
- 2. SEDIMENTARY ROCKS.**
- 3. METAMORPHIC ROCKS.**

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**IGNEOUS**

**METAMORPHIC**



**SEDIMENTARY**



**(iv) How are extrusive and intrusive rocks formed?**

## **ANSWER:**

- 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.

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(v) What do you mean by a rock cycle?

## **ANSWER:**

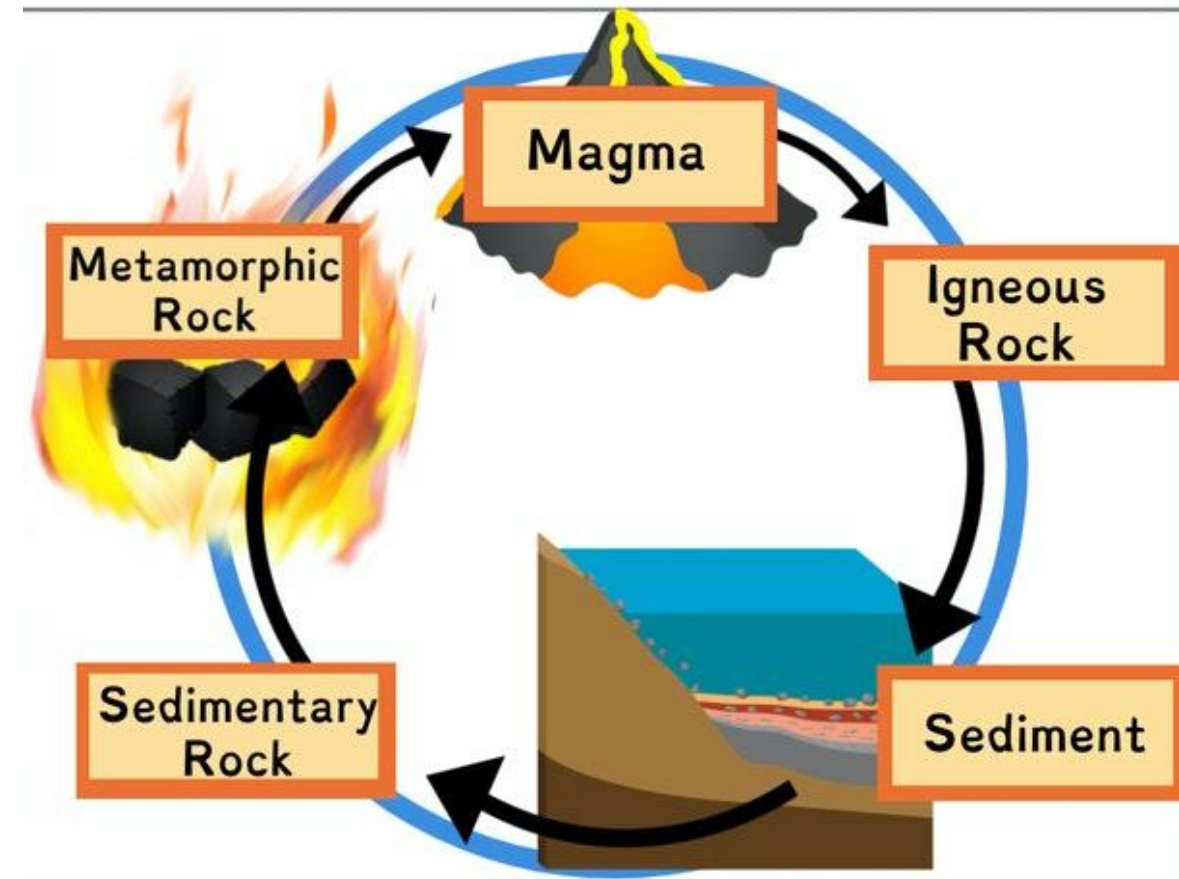
- One type of rock changes to another type under certain conditions in a cyclic manner. This process of transformation of the rock from one to another is known as the rock cycle. Let's understand it through example—Igneous rocks change into sedimentary rocks.



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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) What are the uses of rocks?**

## **ANSWER:**

- Hard rocks are used for making roads, houses and buildings. Stones are used in many games, such as seven stones (pitthoo), hopscotch (stapu/kit kit), Five stones (gitti).



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## INFRASTRUCTURE MADE OF ROCKS



(vii) What are metamorphic rocks?

## ANSWER:

- 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.



**QUESTION 2.** Tick the correct answer.

(i) The rock which is made up of molten magma is

**(A) IGNEOUS**

**(B) SEDIMENTARY**

**(C) METAMORPHIC.**

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**(ii) The innermost layer of the earth is**

- (A) CRUST**
- (B) CORE**
- (C) MANTLE.**

**(iii) Gold, petroleum and coal are example of**

- (A) ROCKS**
- (B) MINERALS**
- (C) FOSSILS.**

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**(iv) Rocks which contain fossils are**

**(A) SEDIMENTARY ROCKS**

**(B) METAMORPHIC ROCKS**

**(C) IGNEOUS ROCKS.**

**(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).



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## QUESTION 3. Match the following.

A	B
(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

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A	B
(v) Sial	(e) Innermost layer
	(f) Changes into slate
	(g) Process of transformation of the rock

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## ANSWER:

(1) - (e)

(2) - (d)

(3) - (b)

(4) - (f)

(5) - (e)

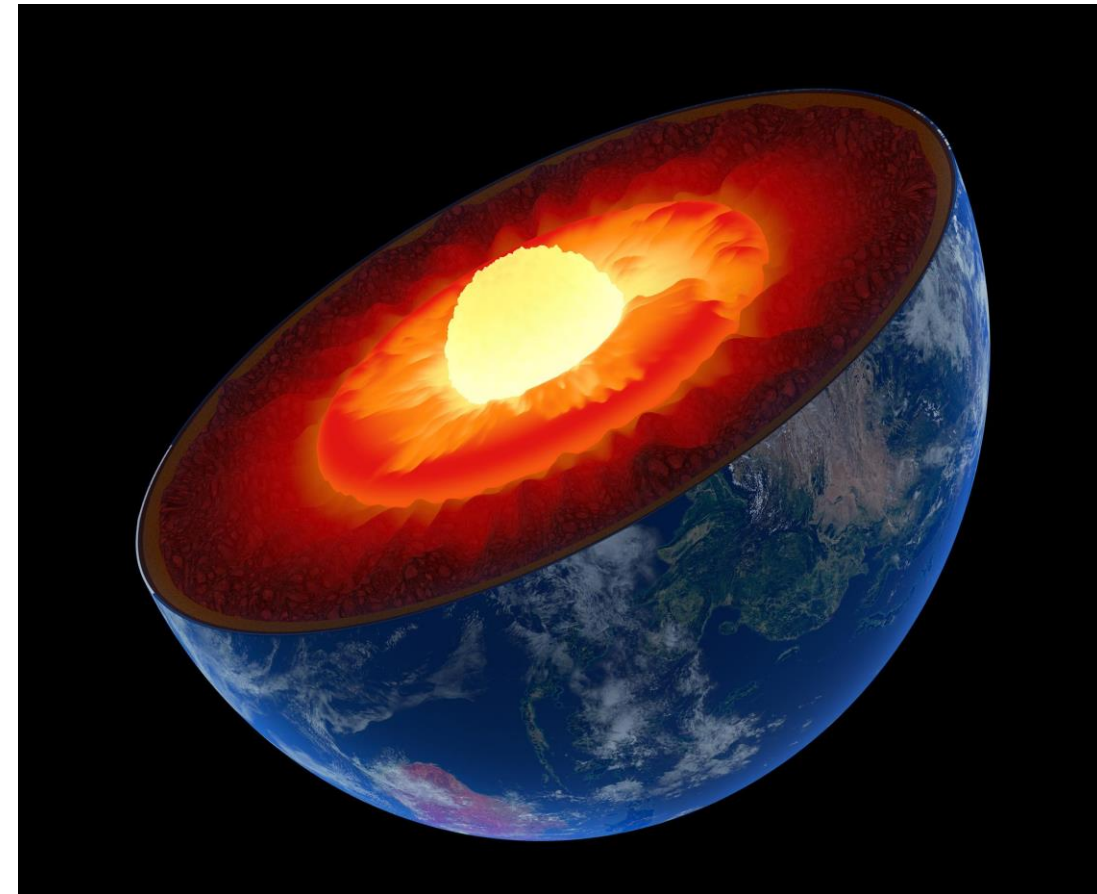


## QUESTION 4. Give reasons:

(i) We cannot go to the center of the earth.

### ANSWER:

- To reach the center 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 center of the earth.



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(ii) Sedimentary rocks are formed from sediments.

## ANSWER:

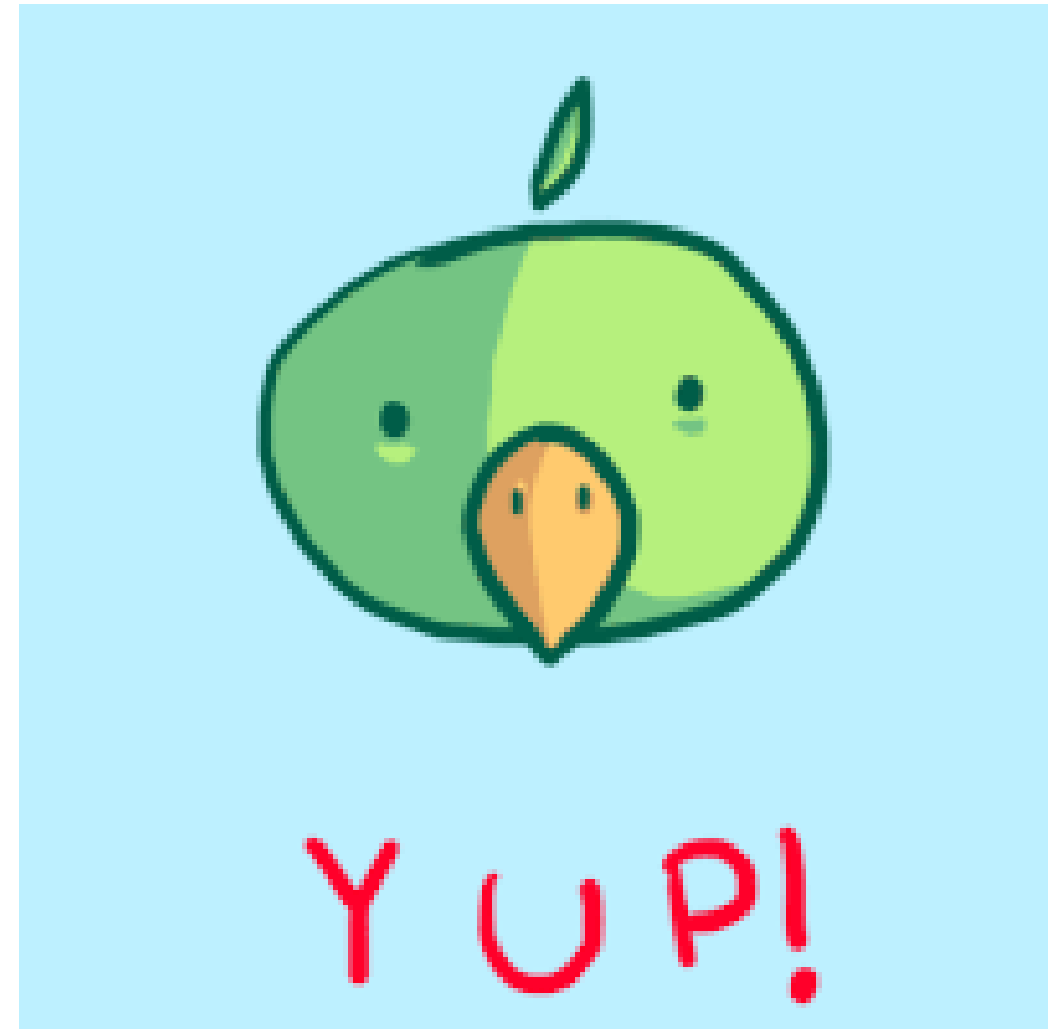
- Rocks break down into small fragments known as sediments. These sediments are transported and deposited by wind, water, etc. These loose sediments are compressed and hardened to form layers of rocks known as sedimentary rocks.



(iii) Limestone is changed into marble.

## ANSWER:

- Limestone is changed into marble because igneous and sedimentary rocks change into metamorphic rocks under a great heat and pressure.



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