

## A Journey to the center of the earth.

1) Ans) The temperature increases as we travel closer towards the center of the earth.

2) Ans) The pressure increases as we travel down.

3) Ans) The three main layers that make up the earth's interior are :-  
i) The Crust  
ii) The Mantle  
iii) The Core

### Crust

4) Ans) The crust is made up of two layers. The upper crust makes up the continents. It mainly consists of the minerals silica & aluminium & is therefore also called sial. The lower crust is a continuous layer of denser rock that makes up the ocean floor. It is made of the minerals silica, iron & magnesium & is therefore called sima.

5) Ans) The earth's crust includes both the ocean floor & dry land. [True].

6) Ans) The two types of earth's crust are :-

i) The upper earth crust are sial.

ii) The lower earth crust are sima.

7) Ans) Yes, the ocean crust contains rocks that are more dense than the rocks found on land.

8) Ans) Based on its chemical composition, it is divided into the upper mantle & the lower mantle :-

The upper mantle is a thin, stiff layer consisting mainly of the minerals silica, iron & magnesium. It extends from the bottom of the crust to a depth of around 300 km.

The lower mantle extends from 300 to 2900 km. It is zone of mixed minerals such as iron, magnesium, aluminium & silica. The average temperature here are 3000°C.



- 9) Ans) The lithosphere consists of the crust & the outer part of the upper mantle. It is rigid & brittle.
- 10) Ans) Right below the lithosphere is a layer of mantle that is made of softer rock called the asthenosphere.
- 11) Ans) The deep of the mantle is 2,900 km.
- 12) Ans) The earth's core is divided into two equal parts :-  
 i) The upper core  
 ii) The inner core
- 13) Ans) Nickel & iron make up both the parts of the core.

