

**CHAPTER 11 : CHANGE IN SURROUNDING AND VARIOUS INCIDENTS****Instructions:**

- ✓ Read the chapter in your book - quickly and thoroughly, preferably more than once.
  - ✓ Watch the uploaded video class from school's website/YouTube channel. For becoming more clear about the basics, watch more than once, if needed.
  - ✓ Contact me in case of any difficulty in understanding.
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**Analytical Question (Mark-2)****1. Write down the characteristics of igneous rock.**

Ans.: The characteristics of igneous rock are as follows:

- i. Igneous rock was formed at first.
- ii. There is no layer in igneous rock.
- iii. It is fossils rock.
- iv. It is crystallized from hot melted substance radiating heat. So it is found in the form of crystals.
- v. There remains no pore in igneous rock. So no liquid substance can enter into it.
- vi. It is well firm and well compact. So it is hard and stiff.

**2. Write down the characteristics of alluvial rock.**

Ans.: The characteristics of alluvial rock are as follows:

- i. Alluvial rock accumulates in layers.
- ii. It is formed with dead bodies of plants, animals and silts.
- iii. It is not found in the form of crystals.

- iv. It is formed underwater. So signs of wave is found on it.
- v. It is very soft.
- vi. It gets cracks while drying.
- vii. Mineral oil is found in alluvial rock.

### 3. Write down the characteristics of metamorphic rock.

Ans.: The characteristics of metamorphic rock are as follows:

- i. It is formed from igneous rock and alluvial rock.
- ii. By the application of heat and chemical process, igneous rocks and alluvial rocks can be converted into metamorphic rocks.
- iii. It is quite different from the igneous and alluvial rocks.
- iv. It is formed through chemical changes.

### 4. How is alluvial rock created?

Ans.: The igneous rock decays by the influence of water, air, snow and glacier, ocean current, storm, cyclone, etc. The rocks then turn into small pieces. Water or air takes these pieces to the ocean through rivers and is stored at the lower level of the ocean as alluvium. The stored alluvium gradually transforms into hard rock which is called alluvial rock.

### 5. Why does rust not occur in the stuffs made of stainless steel? Explain.

Ans.: Stainless steel is prepared by mixing carbon, nickel and chromium with iron. Mainly it is a mixture. Stainless steel is several times stronger and harder than iron. Its property is completely different from original iron. So it cannot create rust by reacting with oxygen and water.

### 6. What are the similarities in igneous and metamorphic rock?

Ans.: The similarities in igneous and metamorphic rock are as follows:

Igneous rock	Metamorphic rock
i. Very hard rock.	i. Very hard rock.
ii. Contains no fossils.	ii. Contains no fossils.
iii. Definite shape and size.	iii. Definite shape and size.
iv. Divided into two parts.	iv. Divided into two parts.