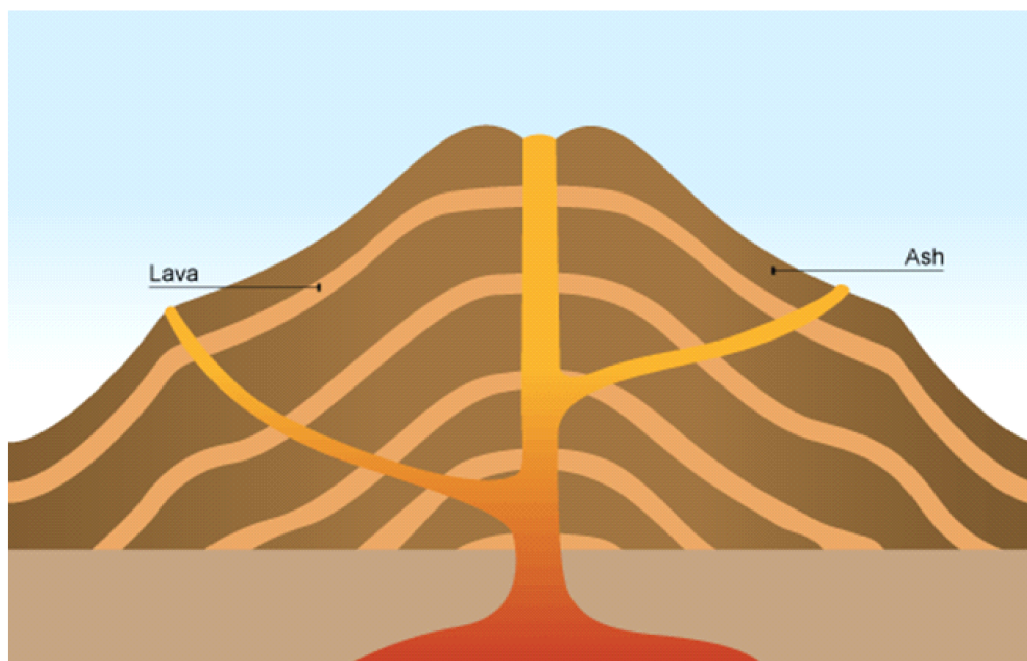


## Composite volcanoes



### Characteristics of a composite volcano

- Composite volcanoes are made up of alternating layers of lava and ash (other volcanoes just consist of lava).
- They are usually found at destructive or compressional boundaries.
- The eruptions from these volcanoes may be a *pyroclastic* flow rather than a lava flow. A pyroclastic flow is a mixture of hot steam, ash, rock and dust.
- A pyroclastic flow can roll down the sides of a volcano at very high speeds and with temperatures of over 400°C.

7. ***'It is desirable to consider relationships between climate and human settlement in different climatic regions of the world'. Illustrate.***

### Approach

1. ***Overview of climate and human settlements (30 words)***
2. ***Different types of climates and their impact on human settlements (150 words)***

### Hints:

The development of civilization and the urbanization in various parts of the world are influenced by climatic conditions present in those respective areas. Some of the examples can be as follows

#### 1. Hot & Humid climate

This region lies between 10 to 15 degree north and south of the equator and characterized by high mean annual temperature, low daily range of temperature and high annual rainfall, hyper humidity.

In order to minimize the stress of inhospitable weather conditions the house design should be such that it may **reduce the receipt of solar radiation**, may provide proper **ventilation** for incoming fresh air and outgoing polluted air, may increase the existing ventilation capacity, may **provide escape for waterlogging and floods** due to daily heavy rainfall, **maximum shade** etc.