

CCT QUESTION CLASS 11 GEOGRAPHY

Soil is a dynamic medium in which many chemical, physical and biological activities go on constantly. Soil is a result of decay; it is also the medium for growth. It is a changing and developing body. It has many characteristics that fluctuate with the seasons. It may be alternatively cold and warm or dry and moist. Biological activity is slowed or stopped if the soil becomes too cold or too dry. Organic matter increases when leaves fall or grasses die. Soil formation or pedogenesis depends first on weathering. It is this weathering mantle (depth of the weathered material) which is the basic input for soil to form. First, the weathered material or transported deposits are colonised by bacteria and other inferior plant bodies like mosses and lichens. Also, several minor organisms may take shelter within the mantle and deposits. The dead remains of organisms and plants help in humus accumulation. Minor grasses and ferns may grow; later, bushes and trees will start growing through seeds brought in by birds and wind. Plant roots penetrate down, burrowing animals bring up particles, mass of material becomes porous and sponge-like with a capacity to retain water and to permit the passage of air and finally a mature soil, a complex mixture of mineral and organic products forms.

1) What is the first step of soil formation?

- a) Humus decomposing b) Climate changing
(C) Weathering of parent rock (D) Nitrates being absorbed by the plant roots

Ans : C

2) Which of the following shows where soil formation happens at a faster rate?

- (A) Few animals and plants are present. (B) when leaves fall or grasses die
(C) Steep Slopes. (D) Cold, dry climate

Ans: B

3) A mature soil is

- (A) a complex mixture of mineral and organic products
- (B) a complex mixture of Bacteria and plant bodies
- (C) a complex mixture of grasses and ferns
- (D) a complex mixture of chemical and biological activity

Ans : A

4) Which type of climate will cause the slowest weathering and soil formation?

- (A) humid and hot (B) cold and wet
- (C) moderate temperature. (D) dry and cold

Ans : D