

**LPUNEST – Ph.D. Soil Science
(Sample Questions)**

QUESTION 1

One of the most important functions of soil is to provide

- Option A support for plants
- Option B nutrients for plants
- Option C water to plants
- Option D air to plants

QUESTION 2

Carbon, hydrogen, and oxygen are combined in photosynthetic reactions and are obtained from air and water. These three elements

- Option A compose 50 percent or more of the dry matter of plants
- Option B compose 90 percent or more of the dry matter of plants
- Option C compose 20 percent or more of the dry matter of plants
- Option D compose 100 percent or more of the dry matter of plants

QUESTION 3

Weathering of minerals brings about their decomposition and the production

- Option A of metals that are released into the soil water
- Option B of cations that are released into the soil water
- Option C of ions that are released into the soil water
- Option D of anions that are released into the soil water

QUESTION 4

Solum is

- Option A the upper and most weathered part of the soil profile including the A and C horizons.
- Option B the upper and most weathered part of the soil profile including the A, E, and R horizons.
- Option C the upper and most weathered part of the soil profile including the A, E, and B horizons.
- Option D the upper and most weathered part of the soil profile including the A, C, and B horizons.

QUESTION 5

Illuviation is the process of

- Option A leaching of soil material into a horizon by movement out of some other horizon
- Option B washing out of soil material into a horizon by movement out of some other horizon
- Option C removal of soil material into a horizon by movement out of some other horizon
- Option D accumulation of soil material into a horizon by movement out of some other horizon