Assignment 3

Task 1: Describe the two types of weathering

- Physical weathering
- Chemical weathering

Task 2: List three factors that influence weathering

- Temperature
- Precipitation
- Topography

Task 3: Explain the process of erosion

Erosion is the movement of soil and rock particles from one place to another due to the action of water, wind, or ice. It involves the detachment, transportation, and deposition of materials.

Task 4: Describe the role of the soil profile in identifying different types of weathering

The soil profile consists of distinct layers: O (organic), A (amorphous), B (structureless), and C (bedrock). Each layer provides information about the type of weathering and the history of the soil formation.

Task 5: Explain the concept of soil erosion and its impact on the environment

Soil erosion occurs when topsoil is removed by the action of water, wind, or ice. It impacts the environment by reducing soil fertility, increasing the risk of downstream flooding, and altering local landscapes.

Task 6: Discuss the importance of soil conservation practices

Soil conservation practices, such as crop rotation, cover cropping, andTerrace farming, help reduce soil erosion and protect soil quality.

Task 7: Write a report on the significance of soil conservation in sustainable agriculture

Soil conservation is crucial for sustainable agriculture as it maintains soil fertility, reduces the risk of water pollution, and supports biodiversity.

Task 8: Conduct a field survey to assess the condition of a local soil sample

Use the following methods:
- Visual inspection
- Texture analysis
- pH testing

Task 9: Analyze the data collected from the field survey

Use statistical methods to analyze the data and determine the health of the soil sample.