

HOW ARE NUTRIENTS  
REPLENISHED  
IN THE SOIL?

## **Replenishment of Nutrients in Soil -**



**Some fungus live in the roots of the plants. Roots of the plants provide shelter and food to the fungus while fungus provides important nutrients to the plants.**

**Because of continuous farming nutrients keep declining in the soil. Hence, to replenish those nutrients fertilizers are added to the soil.**

**Plants require a lot of nitrogen to grow and to be healthy. Although, a lot of nitrogen is available in the atmosphere, but plants cannot absorb nitrogen in gaseous form. There is a bacterium called Rhizobium, which lives in the root nodules of legumes, such as gram, moong, etc.**

**These bacteria can absorb nitrogen from the atmosphere and make it available for the plants. Rhizobium cannot make its food, hence, it provides nitrogen to the legumes and in return legumes provide them food and shelter. This is an example of symbiotic relationship. This has great importance for farmers. Fields in which leguminous plants are grown from time to time, do not need addition of nitrogenous fertilizers.**

# PLENARY

Application Based Questions -

Q. "Soil replenishment is a necessity" . Comment.

# ASSESSMENT & EVALUATION

**Question: 4 – How do nutrients get replenished in the soil?**

**Answer:** There are two main means through which nutrients get replenished in the soil. One of them is the nitrogen fixation in soil. Nitrogen fixation replenishes nitrogenous nutrients in the soil. Another mean is decomposition of dead remains of plants and animals (or farm waste). Decomposition of dead remains replenishes various other nutrients in the soil.