Science

(www.tiwariacademy.com : A step towards free education) (Chapter – 15) (Improvement in Food Resources)

(Class – IX)

Page 206

Q.1 What are macro-nutrients and why are they called macro-nutrients?

Sol. Macro-nutrients are nutrients required in relatively large quantities for growth and development of plants. **They are six in number**. Since **they are required in large quantities**, they are known as **macro-nutrient**. The six macro-nutrients required by plants are **nitrogen**, **phosphorus**, **potassium**, **calcium**, **magnesium**, **and sulphur**.

Q.2 How do plants get nutrients?

Sol. Plants require sixteen essential nutrients from nature for their growth and development. All these nutrients are obtained from air, water, and soil. Soil is the major source of nutrients. Thirteen of these nutrients are available from soil. The remaining three nutrients (carbon, oxygen, and hydrogen) are obtained from air and water.

Page 207

Q.1 Compare the use of manure and fertilizers in maintaining soil fertility.

Sol. Manures increase soil fertility by enriching the soil with organic matter and nutrients as it is prepared by the decomposition of animal excreta and plant wastes. On the other hand, fertilizers are mostly inorganic compounds whose excessive use is harmful to the symbiotic micro-organisms living in soil. Their excessive use also reduces soil fertility. Hence, fertilizers are considered good for only short term use.



www.tiwariacademy.com