



# INDIAN SCHOOL NIZWA - WORKSHEET

## BIOLOGY

### CH-12. MINERAL NUTRITION

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Class: XI-A

- 1 . Define the following: Hydroponics, macronutrients, micronutrients, critical concentration, influx & efflux, Nitrogen fixation, ammonification, nitrification & denitrification, Symbiotic N<sub>2</sub> fixation, leghaemoglobin,
2. What are the three criteria for an element to be considered as essential for plant life?
3. What is hydroponics? Mention its two uses.
- 4 Write any four functions of (i) potassium (ii) phosphorus (iii)magnesium (iv)calcium
- 5 Name the element Which is involved in (i)the synthesis of auxin (ii) fixation of nitrogen.(iii) In the formation of chlorophyll (iv) in photolysis of water (v)in the formation of middle lamella of plant cells.(vi)opening & closure of stomata.
- 6 Name two sulphur containing amino acids.
- 7 Describe Mass flow hypothesis for the movement of ions .
- 8 What are the various steps involved in biological nitrogen fixation in plants?
- 9 Describe how root nodules are formed in plants?
- 10 What is leghaemoglobin? What is its role?
- 11 Why is that in certain plants deficiency symptoms appear first in younger parts of the plant while in others they do so in mature organs?.



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