



**INDIAN SCHOOL MUSCAT  
SENIOR SECTION  
DEPARTMENT OF BIOLOGY  
CLASS XI  
MINERAL NUTRITION  
WORKSHEET-15**

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1. Name the element which is involved in the opening and closing of stomata. [1]
2. Identify the technique used for the commercial production of vegetables like tomato and seedless cucumber. [1]
3. Define critical concentration of an element. [1]
4. Name two bacteria involved in the process of denitrification. [1]
5. When is an element considered to be deficient? [1]
6. What are macronutrients? Give two examples. [2]
7. List the deficiency symptoms of different elements in plants. [2]
8. Illustrate mineral toxicity with an example. [3]
9. Deficiency symptoms of certain elements appear first in the younger leaves, while others appear first in older parts. Give reason. Also name one such element for each of the two categories. [3]
10. Describe reductive amination with two examples. [3]
11. List the criteria of essentiality. [3]
12. Describe in detail biological nitrogen fixation that occurs in the root nodules of legumes. Write the final equation. [5]