



BIOLOGY

NCERT - NCERT BIOLOGY(ENGLISH)

MINERAL NUTRITION

Exercise

1. 'All elements that are present in a plant need not be essential to its survival'. Comment.



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2. Why is purification of water and nutrient salts so important in studies involving mineral nutrition using hydroponics?



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3. Explain with examples: macronutrients, micronutrients, beneficial nutrients, toxic elements and essential elements.



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4. Name at least five different deficiency symptoms in plants. Describe them and correlate them with the concerned mineral deficiency.



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5. If a plant shows a symptom which could develop due to deficiency of more than one nutrient, how would you find out

experimentally, the real deficient mineral element?



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6. 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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7. How are the minerals absorbed by the plants?



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8. What are the conditions necessary for fixation of atmospheric nitrogen by Rhizobium. What is their role in N_2 -fixation?



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9. What are the steps involved in formation of a root nodule?



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10. Which of the following statements are true? If false, correct them:

(a) Boron deficiency leads to stout axis.

(b) Every mineral element that is present in a cell is needed by the cell.

(c) Nitrogen as a nutrient element, is highly

immobile in the plants.

(d) It is very easy to establish the essentiality of micronutrients because they are required only in trace quantities.



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