



BIOLOGY

BOOKS - VIKRAM PUBLICATION (ANDHRA PUBLICATION)

MINERAL NUTRITION

Very Short Answer Questions

1. Hydroponics help for



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2. How do you categorize a particular essential element as a macro or micronutrient ?



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3. Number of essential elements are



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4. Mineral elements involved in photolysis of water during Photosynthesis are



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5. What are elements?



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6. Write notes on amino acids



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7. Which one of the following is not an essential element for plants ?



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8. 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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9. Explain the role of the pink colour pigment in the root nodule of legume plants. What is it called?



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10. Which element is the best non-metal?



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11. What are the elements present in our body?



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12. A balanced equation contains



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13. Name any two typical elements.



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Short Answer Questions

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



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2. Write notes on amino acids



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



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4. Explain the Nitrogen cycle, giving relevant examples.



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



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2. 'All elements that are present in a plant need not be essential to its survival'.
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3. Explain the role of the pink colour pigment in the root nodule of legume plants. What is it called?



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Exercises

1. Hydroponics help for



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2. The number of macro essential mineral elements required by all plants are



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3. Which essential element is needed to activate the enzymes required for CO_2 fixation?



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4. The coordination numbers of cation and anion in NaCl crystal are respectively



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5. Which element is required for the formation of mitotic spindle ?



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6. What is the role of sulphur in plant life ?



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7. The micro essential mineral element which has been reported recently is



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8. Which element is necessary for the synthesis of the chief photosynthetic pigment without being its structural component ?



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9. What is photolysis of water ?



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10. Which enzyme is activated by the 17th essential element ?



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11. When is an element considered to be toxic ?



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12. Which element when supplied in excess leads, to appearance of brown spots surrounded by chlorotic venis ?



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13. Name an anaerobic, free living, photo-hetrotrophic nitrogen fixing bacterium.



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14. Which aquatic fern performs nitrogen fixation ?



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15. Explain the role of the pink colour pigment in the root nodule of legume plants. What is it called?



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16. Apart from the cortical cells, which other cells are stimulated to divide by the bacteroids inside the root nodules ?



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17. Which of the following can fix atmospheric nitrogen ?



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18. What acts as oxygen scavenger in the legume - root nodule combination ?



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19. In what way does asparagine differ from aspartic acid ?



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20. Through which tissue the amino acids are transported inside the plant body ?



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21. Plants like the Pitcher and Venus fly trap have special nutritional adaptations. Name the essential element and its source for which they show such adaptations.



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22. Excess of manganese induce the deficiency of



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23. What acts as a reservoir of essential elements for plants ? By what process is it formed ?



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24. Fixation of nitrogen is a source for



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