

Class: XIth

Date:

Subject: BIOLOGY

DPP No.: 1

| | Topic :- Mineral Nutrition | | | | | |
|-----|--|--|---|---|--|--|
| 1. | Enzyme nitrogenase is responsible for | | | | | |
| | a) Nitrification | b) Nitrogen fixation | c) Nitrite reduction | d) Nitrate reduction | | |
| 2. | Nitrifying bacteria | | h) Chi - i | | | |
| | a) Liberate ammonia c) Oxidise ammonia to nitrate | | b) Change ammonia into ionic form d) Oxidise ammonia to nitrite | | | |
| | cy Oxidise annionia to intrate | | of Oxidise animonia to intrice | | | |
| 3. | • • | - | and accumulate which of the following elements? | | | |
| | a) Gold | b) Selenium | c) Strontium | d) All of these | | |
| 4. | Name the minerals responsible for maintaining cation-anion balance in the plant cells | | | | | |
| | a) K ⁺ and Fe ⁺³ | b) Cl ⁻ and K ⁺ | c) Ca ⁺² and Mg ⁺² | d) Cl ⁻ and Mg ⁺² | | |
| _ | What is the major function | on of air stone? | | | | |
| 5. | What is the major function a) Remove CO ₂ content f | | b) Dissolves O ₂ in the nutrient solution | | | |
| | c) Increases the level of N ₂ in the nutrient solutions | | d) Removes O ₂ from the nutrient solution | | | |
| | | | a, removes of from the nutrient solution | | | |
| 6. | In hydroponic vegetable | c vegetables, the pH preferred by most vegetable is slightly | | | | |
| | a) Alkaline | b) Neutral | c) Acidic | d) Basic | | |
| 7. | Which of the following a | re considered as the roles | of iron (Fe) in plants? | | | |
| | Which of the following are considered as the roles of iron (Fe) in plants? I. Important constituent of cytochrome | | | | | |
| | II. Activator of catalase | | | | | |
| | III. Essential for chloropl Choose the correct optio | | L L 6 | | | |
| | a) Only I | b) Only III | c) Only II | d) All of these | | |
| 0 | By applying which of the following practices, contamination of hydroponics plants can be reduced | | | | | |
| 8. | a) Change the medium e | | b) Do not use tools from the outdoor garden | | | |
| | c) Complete aeration in hydroponic tank | | d) All of the above | | | |
| 9. | An essential element is that which | | | | | |
| | a) Improves health of the plant | | b) Is irreplaceable and indispensable for | | | |
| | c) Is found in plant ash | | growth of plants d) Is available in the soil | | | |
| | | | a, is available in the sc |)II | | |
| 10. | Essential elements perform many functions which includes | | | | | |
| | I. Permeability of the cell membrane II. Maintenance of osmotic concentration of the cell sap | | | | | |
| | III. Major constituents of macromolecules and coenzymes | | | | | |
| | IV. Buffering action | | | | | |
| | Choose the correct option | | | | | |



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| | a) Only III | b) I and III | c) Only I | d) I, II and III | | |
|-----|---|--|---|---|--|--|
| 11. | Which of the following a) Lead | metals causes harmful b) Cobalt | effects? c) Uranium | d) All of these | | |
| 12. | Nitrogen is mainly absor a) Nitrate | bed in the form of b) Nitrite | c) Ammonium | d) All of these | | |
| 13. | In the initial phase of min a) Slowly | nerals absorption ions are b) Rapidly | taken up c) Fluently | d) Simultaneously | | |
| 14. | Which of the following is true regarding manganese toxicity in plants? a) Induction deficiencies of iron, magnesium and calcium b) Appearance of brown spots surrounded by chlorotic veins c) Inhibition of Ca ²⁺ ions translocation in the shoot apex d) All of the above | | | | | |
| 15. | Sulphur is found as a cona) Cysteine | stituent in w <mark>hich of the fo</mark> b) Methio <mark>nine</mark> | ollowing amino acids? c) Both (a) and (b) | d) None of above | | |
| 16. | What is the key principle of the EBB and flow system in hydroponics? a) It floods and drains periodically b) It makes a tide flowing over the roots c) It sprays a mist of nutrients on the roots d) None of the above | | | | | |
| 17. | Hydroponics has been su a) Seedless cucumber | accessfully employed as a b) Tomato | technique for which of the c) Lettuce | e following vegetables? d) All of these | | |
| 18. | For the uptake of ions in a) Passive uptake | the second phase of absorb) Active uptake | rption of minerals, the pat c) Neutral | hway followed is called d) None of these | | |
| 19. | How many essential min a) 17 | eral elements have been d b) 107 | liscovered yet? c) 110 | d) 150 | | |
| 20. | Which of the following is a rootless aquatic plant in which a portion of the leaf forms a tiny s for trapping insects? a) Nepenthes b) Drosera c) Utricularia d) Dionaea | | | | | |
| | «/ Nepelities | of Dioscia | o, ou icularia | ✓, Dioliaca | | |