

Class : XIth

Date :

Subject : BIOLOGY

DPP No. : 1

		Topic :- Mineral Nutrition			
1.	Enzyme nitrogenas	e is responsible for	onsible for		
	a) Nitrification	b) Nitrogen fixation	c) Nitrite reduction	d) Nitrate reduction	
2.	Nitrifying bacteria	_			
	a) Liberate ammonia		b) Change ammonia into ionic form		
	c) Oxidise ammonia to nitrate		d) Oxidise ammonia to nitrite		
3.	Plants growing near t elements?	he nuclear test sites take	up and accumulate whi	ch of the following	
	a) Gold	b) Selenium	c) Strontium	d) All of these	
4.	Name the minerals re a) K^+ and Fe^{+3}	sponsible for maintainin b) Cl [–] and K ⁺	g cation-anion balance i c) Ca ⁺² and Mg ⁺²	n the plant cells d) Cl [–] and Mg ⁺²	
5.	What is the major function of air stone? $ {Remove\ CO_2\ content\ from\ the\ nutrient} \\ a) {Remove\ CO_2\ content\ from\ the\ nutrient} \\ $		b) Dissolves O_2 in the nutrient solution		
	Increases the level of N_2 in the nutrient solutions		d) Removes O_2 from the nutrient solution		
6.	In hydroponic vegetables, the pH preferred by most vegetable is slightly				
	a) Alkaline	b) Neutral	c) Acidic	d) Basic	
7.	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 chlorophyll synthesis Choose the correct option				
	a) Only I	b) Only III	c) Only II	d) All of these	
8.	By applying which of the following practices, contamination of hydroponics plants can be reduced?				
	a) Change the medium every weekc) Complete aeration in hydroponic tank		b) Do not use tools from the outdoor garden d) All of the above		

9.	An essential element is that which a) Improves health of the plant c) Is found in plant ash		b) Is irreplaceable and indispensable for growth of plants d) Is available in the soil				
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 a) Only III b) I and III c) Only I d) I, II and III						
	a) Only III	b) I and m	c) Omy i	uji, ii anu iii			
11.		Which of the following metals causes harmful effects?					
	a) Lead	b) Cobalt	c) Uranium	d) All of these			
12.	Nitrogen is mainly absorbed in the form of						
	a) Nitrate	b) Nitrite	c) Ammonium	d) All of these			
13.	In the initial phase of na) Slowly	ninerals absorption ions b) Rapidly	are 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.	=		ne following 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 successfully employed as a technique for which of the following vegetables?						
	a) Seedless cucumber	b) Tomato	c) Lettuce	d) All of these			
18.	For the uptake of ions	in the second phase of a	bsorption of minerals, th	ne pathway followed is			

	called							
	a) Passive uptake	b) Active uptake	c) Neutral	d) None of these				
19.	9. How many essential mineral elements have been discovered yet?							
	a) 17	b) 107	c) 110	d) 150				
20. Which of the following is a rootless aquatic plant in which a portion of the								
	tiny sac for trapping insects?							
	a) Nepenthes	b) Drosera	c) Utricularia	d) Dionaea				