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## **MINERAL NUTRITION & NITROGEN METABOLISM**

1.	Gray spots of oats are caused by deficiency of									
	1. Cu	2. Zn	3. Mn		4. Fe					
2.	In which one of the following is nitrogen <i>not</i> a constituent									
	1. Idioblasts	2. Bacteriochlorophy	11 3.1	Invertase	4. Pepsin					
3.	The major portion of		2003							
	1. Nitrogen, phosphorus and potassium2. Calcium, magnesium and sulphur									
	3. Carbon, nitrogen and hydrogen4. Carbon, hydrogen and oxygen									
4.	If by radiation all nitr	will be no	2004							
	1. Fixation of nitrogen in legumes.2. Fixation of atmospheric nitrogen				n					
	3. Conversion of nitrates to nitrites in legumes 4. Conversion from ammonia to nitr									
5.	All of the following statements concerning actinomycetous filamentous soil bacterium Frankia									
	are correct except that		2005							
	1. Can induce root nodules on many plant species									
	2. Cannot fix nitrogen in free-living state									
	3. Like <i>Rhizobium</i> , it usually infects its host plant through root hair deformation and stimulates cell proliferation in the host's cortex.									
	4. Forma specialized vesicles in which the nitrogenase is protected from oxygen by a chemical barrier involving triterpene haponoids.									
6.	Prolonged liberal irrig	gation of agricultural f	ields is l	likely to create	the problem of	2005				
	1. Acidity	2. Aridity	3. Mat	al toxicity	4. Salinity					
7.	The ability of the Ver	nus flytrap to capture i	nsects is	due to		2005				
G	1. Chemical stimulation by the prey									
	2. A passive process requiring no special ability on the part of the plant									
	3. Specialized 'muscle-like' cells									
	4. Rapid turgor pressure changes.									

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8.	Sulphur is an important nutrient for optimum growth and productivity in								
	1. Oilseed crops	2. Pulse crops	3. Cereals	4. Fibre crops					
9.	Farmers in a particu	Farmers in a particular region were concerned that pre mature yellowing of leaves of a pulse crop							
	Might caue decrease in the yield. Which treatment could be the most beneficial to obtain maximum								
	seed yield.								
	1. Application of iron and magnesium to promote synthesis of chlorophyll								
	2. Frequent irrigation of the crop								
	3. Treatment of the plants with cytokinins along with a small dose of nitrogenous fertilizer								
	4. Removal of all the yellow leaves and spraying the remaining green leaves with 2,4,5 trichlorophenoxy acetic acid								
10.	A plant requires mag	2007							
	1. Protein synthesis2. Chlorophyll synthesis								
	3. Cell wall development4. Holding cells together								
11.	Which one of the following elements is not an essential micronutrient for plant growth?								
	1. Zn	2. Cu	3. Ca	4. Mn					
12.	Which one the following is a flowering plant with nodules containing filamentous nitrogen-fixing microorganism? 2007								
	1. Crotolaria juncea	2. Cycas revolute	3. Cicer arietinum	4. Casuarina equisi	tifolia				
13.	Which of the following statement is correct?								
	1. Both Azatobacter	1. Both Azatobacter and Rhizobium fix atmospheric nitrogen in root nodules of the plant.							
	2. Cyanobacteria such as Anabaena and Nostoc are important mobilizers of phosphates and potassium for plant nutrition in soil.								
	3. At present it is no	3. At present it is not possible to grow maize without chemical fertilizers.							
	4.Extensive use of a	4. Extensive use of chemical fertilizers may lead to eutrophication of nearby water bodies							
14.	Which one of the following mineral element plays an important role in biological nitrogen fixation?								
4	1. Copper	2. Manganese	3. Zinc	4. Molybdenum					
15.	Manganese is requir	ed in			2009				
	1. Photolysis of water during photosynthesis 2. Chlorophyll synthesis								
	3. Nucleic synthesis4. Plant cell wall formation								

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