

PG-CET-BOTANY

PRACTICE BITS ON “MINERAL NUTRITION”

- 1) Plants obtain mineral elements from** [1]
1) Soil 2) Air, water 3) Air & Soil 4) Air, Water, soil
- 2) Ammonification means** [3]
1) Conversion of Ammonia into Amino acids
2) Conversion of Nitrites & Nitrates into Ammonia
3) Conversion of Organic nitrogenous compounds into Ammonia
4) Conversion of N_2 into Ammonia
- 3) If by radiation all nitrogenase enzymes in Nature are inactivated then there will be no** [4]
1) Fixation of atmospheric nitrogen in nature
2) Ammonification of legumes
3) Conversion of Nitrite into NH_3
4) Nitrogen Fixation in legumes
- 4) The microelement which is required for plants in larger amount in comparison to other microelement is** [1]
1) Fe 2) Mo 3) Zn 4) Mn
- 5) The micro element which is required for plants in least quantity** [2]
1) Cu 2) Mo 3) Ni 4) Zn
- 6) First stable product of biological Nitrogen fixation is** [3]
1) NO_2 2) NO_3 3) NH_3 4) NH_4
- 7) Usually synthesis of amino acids by Reductive amination & Transamination occur in /on** [2]
1) Cytoplasm 2) Mitochondria 3) Ribosomes 4) RER.
- 8) Elements common in chlorophyll and ATP are** [1]
1) C, H, O, N 2) C, H, O, N, P 3) C, H, O, N, Mg 4) C, H, O
- 9) Organism that fix atmospheric 'N' either in free living form or as symbiotic form is** [3]
1) Rhizobium 2) Frankia 3) Nostoc 4) Bacillus

- 10) Ploidy of the nodular cells in legumes is** [4]
1) n 2) $2n$ 3) $3n$ 4) $4n$
- 11) Substrate for denitrification process is** [3]
1) Ammonia 2) Ammonium ion 3) Nitrate ion 4) N_2
- 12) No of ATP required for the synthesis of 5 Ammonia molecules in legumes are** [2]
1) 30 2) 40 3) 80 4) 50
- 13) Most common form of 'N' which is removed from the soil into plants is** [4]
1) N_2 2) NH_3 3) Nitrite 4) Nitrate
- 14) α -KGA forms glutamic acid by** [3]
1) Transamination 2) Transketolation
3) Reductive amination 4) Transphosphorylation
- 15) Plants incorporate absorbed ammonia immediately in this from** [2]
1) Urea 2) Ureides 3) Amino group 4) Amino acids
- 16) The essential element required for the formation of root nodules in legume plants are** [4]
1) B 2) Mg 3) S 4) All of these
- 17) Which anion is required for photolysis of water?** [2]
1) Mn 2) Cl 3) Ca 4) All of these
- 18) Who gave the criteria of essentiality?** [3]
1) Sachs 2) Hill 3) Arnon & stout 4) Black man
- 19) The plant ash is an indication of** [4]
1) Organic matter of plant 2) All elements of plant
3) Essential elements of plant 4) Mineral elements of plants
- 20) "N" is not required for the synthesis of** [2]
1) Proteins 2) Cellulose 3) DNA 4) Lecithin
- 21) Pungent smell of onion, garlic, cabbage and cauliflower is due to** [3]
1) P 2) Mg 3) S 4) Cl

- 22) Find out the mis match** [1]
1) Cu - plastoquinone 2) Ni - Urease
3) Zn - alcohol dehydrogenase 4) Mg – RuBisCO
- 23) Critical elements are** [2]
1) C, H, O 2) N, P, K 3) Fe, Zn, Mn 4) K, Ca, Mg
- 24) Mg is not required for** [4]
1) Synthesis of chlorophyll 2) Activator for hexokinase
3) Synthesis of DNA and RNA 4) Dissociation of ribosomal subunits
- 25) Pollen germination is induced by** [2]
1) Mo 2) B 3) S 4) Zn
- 26) Which of the following is not a beneficial element?** [3]
1) Sodium 2) Silicon 3) Sulphur 4) Selenium
- 27) Correct sequential order of steps in Nitrogen cycle are** [4]
1) Ammonification, Nitrification, Denitrification, N₂-fixation, N₂- assimilation
2) N₂-assimilation, N₂-fixation, Ammonification, Nitrification, Denitrification
3) Nitrification, Denitrification, N₂- fixation, N₂-assimilation, Ammonification
4) N₂-fixation, N₂- assimilation, Ammonification, Nitrification, Denitrification
- 28) “S” is not a component in** [1]
1) Lecithin 2) Methionine 3) Biotin 4) Cysteine
- 29) O₂ acts as a competitive inhibitor to** [3]
1) N₂ 2) Leg-Hb 3) Nitrogenase 4) NH₃
- 30) Leg-Haemoglobin is synthesized by** [4]
1) Nitrogenase 2) Root hairs of legumes
3) Rhizobium 4) Cortical cells of legumes

ALL THE BEST

**By
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