



BIOLOGY

BOOKS - UNIVERSAL BOOK DEPOT 1960 BIOLOGY (HINGLISH)

MINERAL NUTRITION

Mineral Nutrition

1. Which one of the following is not an essential mineral element for plants while the remaining three are

- A. Cadmium
- B. Phosphorus
- C. Iron
- D. Manganese

Answer:



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2. In plant nutrition elements are classified as major or minor depending on

- A. Their availability in the soil
- B. Their relative production in the ash obtained after burning the plants
- C. The relative amounts required by the plants
- D. Their relative importance in plant growth

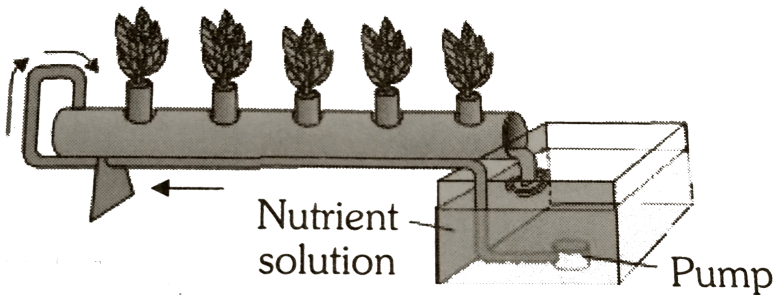
Answer: C



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3. The given figure shows hydroponic/soil less plant production. Plants are grown in a tube or through placed on a slight incline. The arrows indicate the direction of flow of nutrient solution.

Nutrient solution is sent to the elevated end of the tube from the reservoir by _____ and it flows back into reservoir due to _____



- A. Pump, Gravity
- B. Gravity, Pump
- C. Gravity, Gravity
- D. Pump, Pump

Answer:



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4. Inorganic nutrients are presents in the soil in the form of

- A. Molecules
- B. Atoms
- C. Electrically charged ions
- D. Parasite

Answer: C



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5. Sulphur is an important nutrient for optimum growth and productivity in

- A. Fibre crops
- B. Oilseed crops
- C. Pulse crops
- D. Cereals

Answer:



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6. An essential element is one

- A. Improve plant growth
- B. Present in plant ash
- C. Is indispensable for growth and is irreplaceable
- D. Available in soil

Answer: C



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7. Hydroponics are

- A. Growing of aquatic plants

- B. Growing of floating aquatic plants
- C. Growing of plants in sand
- D. Growing of plants in aqueous balanced nutrient

Answer:



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8. Which of the following ions of heavy metals participate in process of photosynthesis in higher plants

- A. Pb, Fe, Ni, Co
- B. Mg, Zn, Cu, Hg
- C. Mg, Mn, Co, Fe
- D. Mg, Cu, Mn, Fe

Answer:



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9. Necrosis means

- A. Yellow spots on the leaves
- B. Death of tissue and decomposition
- C. Darkening of green colour in leaves
- D. None of the above

Answer: B



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10. Tracer elements are

- A. Micro elements
- B. Macro-elements
- C. Radio isotops
- D. Vitamins

Answer:



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11. Essential elements for plants are

- A. Life cycle incomplete without it
- B. Non replaceable
- C. Metabolism (necessary for it)
- D. All above

Answer:



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12. In hydrophytic plants, water and salts are absorbed by

- A. Roots

B. Leaves

C. Stem

D. Outer layer of plants

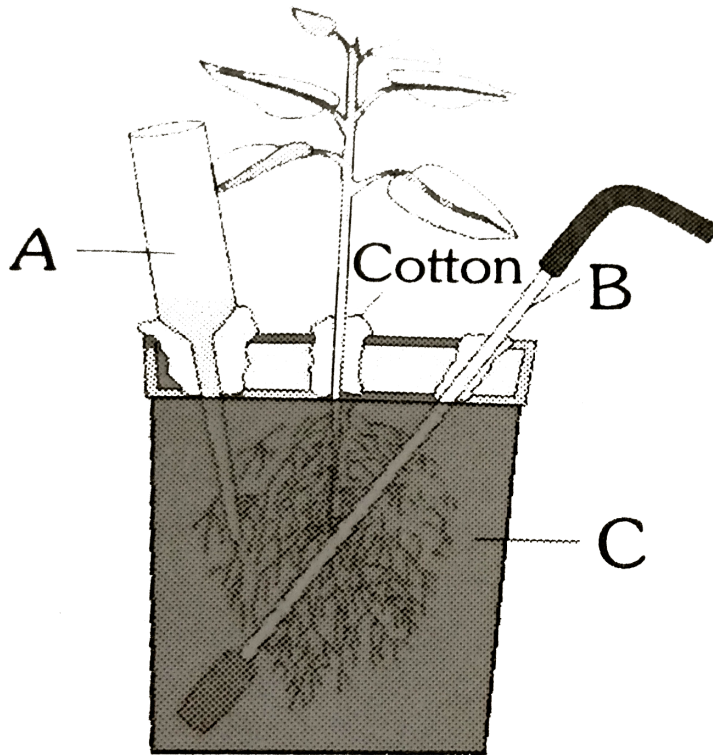
Answer:



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13. The given figure shows a typical setup for hydroponic technique. Choose the option which gives correct set words for all the three blanks

A, B and C



A. A-funnel for adding water and nutrients, B - Aerating tube, C - Water

B. A -Funnel for adding nutrients only B, Aerating tube, C - Nutrient solution

C. A-Funnel for adding water only, B - Aerating tube, C-Nutrient solution

D. A - Funnel for adding water and nutrients, B - Aerating tube, C -

Nutrient solution

Answer:



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14. The number of essential elements required for normal growth of plant is

A. 10

B. 16

C. 20

D. 25

Answer: B



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15. Aeroponic is also called as

- A. Soilless cultivation of plants
- B. Parthenocaropy
- C. Vivipary
- D. Phytotron

Answer: A



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16. Who gave the criteria of essentiality

- A. R. Hill
- B. F.F. Blackman
- C. M.P. Kaushik
- D. D.L. Arnon

Answer:



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17. Which one of the following scientists used the nutrient culture solution in hydroponic cultures

A. Sachs

B. Webster

C. Wallace

D. Knop

Answer:



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18. Which group of element is not essential for a normal plant

- A. Potassium, calcium, magnesium
- B. Iron, zinc, magnaese, boron
- C. Lead, nickel, iodine, sodium, barium
- D. Magnesium, iron, molybdenum

Answer:



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19. The charcoal culture experiment is better than water culture experiment because

- A. Plants get support
- B. Problem of aeration is removed
- C. Charcoal is an inert substance
- D. All the above

Answer:



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20. Which of the following is not caused by deficiency of mineral nutrition

- A. Necrosis
- B. Chlorosis
- C. Etiolation
- D. Shortening internode

Answer:



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21. Cultivation by sand culture is also called

- A. Soilles cultivation
- B. Green house effect
- C. Photorespiration

D. None of these

Answer: A



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22. In which of the following forms is iron absorbed by plants

A. Ferric

B. Ferrous

C. Free element

D. Both ferric and ferrous

Answer: A



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23. Which of the following is associated with electron transport in photosynthesis

- A. Sodium
- B. Potassium
- C. Iron
- D. Cobalt

Answer: C



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24. Which element forms part of structure of chlorophyll molecule

- A. Fe
- B. Mg
- C. K
- D. Mn

Answer: B



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25. Deficiency symptoms of nitrogen and potassium are visible first in

- A. Roots
- B. Buds
- C. Senescent leaves
- D. Young leaves

Answer: C



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26. In which of the following, all the three are macronutrients

- A. Boron, zinc, maganese

B. Iron, copper, molybdenum

C. Molybdenum, magnesium, manganese

D. Nitrogen, carbon, phosphorus

Answer:



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27. Plants requiring two metallic compounds (minerals) for chlorophyll synthesis, are

Or

One mineral activates the enzyme catalase and the other is a constituents of the ring structure of chlorophyll. These minerals are respectively

A. Fe and Ca

B. Fe and Mg

C. Cu and Ca

D. Ca and K

Answer:



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28. Which of the following is essential mineral element and is not a constituent of any enzyme but stimulate the activity of many enzymes

A. Zn

B. Mg

C. Mn

D. K

Answer:



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29. Interveinal clorosis of leaves is caused by the deficiency of

- A. Nitrogen
- B. Calcium
- C. Potassium
- D. Magnesium

Answer: D



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30. Cholrosis occurs when plants are grown in

- A. Dark
- B. Shade
- C. Strong light
- D. Fe free medium or (due to lack of iron or magnesium)

Answer: D



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31. K, N, Ca, Mg deficiency causes

- A. Chlorosis
- B. Leaf curl
- C. Exanthema
- D. Little leaf

Answer:



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32. The possible resource of phosphorus ions and nitrogen ions in soil generally get depleted because they are usually found as

- A. Positively charged ions
- B. Negatively charged ions
- C. A disproportionate mixture of negatively charged ions
- D. Particles carrying no charge

Answer:



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33. Which of the following does NPK (Critical element) denote

- A. Nitrogen, postassium, kinetin
- B. Nitrogen, protein, kinetin
- C. Nitrogen, protein, potassium
- D. Nitrogen, phosphorus, potassium

Answer:



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34. In nature, organic compounds invariable contain

- A. Carbon
- B. Phosphorus
- C. Sulphur
- D. Magnesium

Answer:



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35. Necrosis, or death of tissue particularly leaf tissue, is due to the deficiency of

- A. N, K, S
- B. N, K, Ma and Fe
- C. N , K, Ma, Fe, Mn, Zn and Mo

D. Mn, Zn and Mo

Answer: A::C::D



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36. Which element is require for the gemination of pollen grain

Or

Which of the following element is very essential for uptake and utilization of Ca^{2+} and membrane function

A. Boron, zinc, maganese

B. Calcium

C. Chlorine

D. Potassium

Answer:



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37. The appearance of yellow edges to leaves is due to deficiency of this mineral element

- A. Calcium
- B. Magnesium
- C. Potassium
- D. Sulphur

Answer: C



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38. The most abundant element present in the plants is

Or

Which of the following is not absorbed through soil

- A. Maganese
- B. Iron

C. Carbon

D. Nitrogen

Answer:



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39. The major portion of the dry weight of plants comprises of

Or

Frame work elements in plants are

A. Carbon, hydrogen, and oxygen

B. Nitrogen, Phosphorus and potassium

C. Calcium, maganesium and sulphur

D. Carbon, nitrogen and hydrogen

Answer:



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40. Those fertilizers, which provide all the essential elements such as N, P and K etc. required for plant growth, are called

- A. Direct fertilizers
- B. Indirect fertilizers
- C. Complete fertilizers
- D. Incomplete fertilizers

Answer:



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41. Which of the following element is used up in phosphorylation

- A. Calcium and sulphur
- B. Chlorine and maganese
- C. Iron and phosphorous

D. Magnesium and phosphate

Answer:



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42. Which of the following is not an essential macro-element for the growth of plants

A. N

B. Zn

C. Ca

D. K

Answer:



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43. Most common free ion in a cell is

- A. P
- B. K
- C. Fe
- D. B

Answer: B



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44. The major role of phosphorus in plant metabolism is

- A. To generate metabolic energy
- B. To evolve oxygen during photosynthesis
- C. To evolve carbon dioxide during respiration
- D. To create anaerobic conditions

Answer:



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45. In plants sulphur is found as

- A. Fast moving
- B. Moving
- C. About non-moving
- D. None of the above

Answer:



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46. Which one is not related with plant ash

- A. Trace elements

B. Essential elements

C. Nitrogen

D. Mineral elements

Answer:



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47. Plants absorb phosphates as

A. Soluble phosphate

B. All phosphates

C. Phosphoric acid

D. As element

Answer:



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48. Which of the following is a macro nutrient

A. Ca and Mg

B. Mo

C. Mn

D. Zn

Answer:



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49. Deficiency of which of the following element casue weaking of pedicel and petiole

Or

Which of the following is required for binding protein wit nucleic acid

A. Magnesium

B. Zinc

C. Nitrogen

D. Calcium

Answer:



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50. Magnesium is mainly present in the form of

A. Citrate

B. Bicarbonate

C. Carbonate

D. Phosphate

Answer:



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51. The constant pH of body fluid is maintained by buffer salts like

- A. Potassium phosphates
- B. Sodium phosphates
- C. Adenosine monophosphate
- D. Sodium and potassium phosphates

Answer:



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52. Premature leaf fall is caused due to the deficiency of

- A. Molybdenum
- B. Sulphur
- C. Sodium
- D. Phosphorus

Answer:



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53. Which of the following is considered to be the elements between macro-nutrients and micro-nutrients

- A. Iron
- B. Nitrogen
- C. Phosphorus
- D. Manganese

Answer:



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54. The cause of special flavour in onion and garlic is due to the presence of

Or

Yellowing of tea leaf takes place by the deficiency of

- A. Sulphur
- B. Phosphorus
- C. Potassium
- D. Nitrogen

Answer:



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55. Which is essential for root hair growth

Or

The mineral present in cell wall is

- A. Zn
- B. Ca
- C. Mo

D. S

Answer:



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56. Rapid deterioration of root and shoot tip occurs due to the deficiency of

A. Calcium

B. Phosphorus

C. Nitrogen

D. Carbon

Answer:



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57. About 98 percent of the mass of every living organism is composed of just six elements including carbon, hydrogen, nitrogen, oxygen and

- A. Phosphorus and sulphur
- B. Sulphur and magnesium
- C. Magnesium and sodium
- D. Calcium and phosphorus

Answer:



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58. Phosphorus is a structural element in

- A. Fat
- B. Starch
- C. Nucleotide
- D. Carbohydrate

Answer: C



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59. Which of the following is not a macro-nutrient

Or

Which is essential for the growth of root tip

A. MN

B. Ca

C. Mg

D. Phosphorus

Answer:



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60. Presence of phosphorus in a plant

- A. Brings about healthy root growth
- B. Retards fruit ripening
- C. Retards protein formation
- D. None of the above

Answer:



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61. Essential macroelements are

- A. Absorbed from soil
- B. Manufactured during photosynthesis
- C. Produce by enzymes
- D. Produced by growth hormones

Answer:



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62. A trace element is an element which

- A. Is radioactive and can be traced by Geiger counter
- B. Is required in very minute amounts
- C. Draws other element out of protoplasm
- D. Was one of the first to be discovered in protoplasm

Answer:



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63. Micro-nutrients are

- A. Less important in nutrition than macro-nutrients
- B. As important in nutrition as macro-nutrients

- C. May be omitted from culture media without any detrimental effect on the plant
- D. Called micro because they play only minor role in nutrition

Answer:



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64. Deficiency of molybdenum cause

- A. Poor development of vasculature
- B. Bending of leaf tip
- C. Yellowing of leaves
- D. Mottling and necrosis of leaves

Answer: C



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65. Find the correctly matched pair

Nutrients	Functions
(a) Zince	– Helpes to maintain the ribosome strcuture
(b) Magnesium	– Needed during the formation of mitotic spindle
(c) Calcium	– Plays a role in the opening and closing of stomata
(d) Manganese	– Needed in the splitting of water to liberate oxygen d
(e) Potassium	– Needed in the synthesis of auxin



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66. In a Citrus plantation, all the plants were found to be suffering from the die-back, spraying of fungicides was of no help. This problem was due to the deficiency of

- A. Copper
- B. Gibberellic acid
- C. Zinc
- D. Auxins

Answer:



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67. The appearance of brown spots surrounded by chlorotic veins is the prominent symptom of:-

A. Mn

B. Mo

C. Mg

D. Zn

Answer:

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68. Which of the following is widely used metal cofactor

A. Ca^{2+}

B. Al^{3+}



Answer:



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69. For its activity, carboxypeptidase requires

Which one is the co-factor of carbonic anhydrase

A. Zinc

B. Tron

C. Niacin

D. Copper

Answer:



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70. Apple fruit develop internal cork due to deficiency of

Or

'Petiole crack' is caused by the deficiency of

A. Magnesium

B. Iron

C. Manganese

D. Boron

Answer:



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71. Micronutrients are needed in amounts equivalent to

A. 8m mole/kg of dry matter

B. 18m mole/kg of dry matter

C. 25m mole/kg of dry matter

D. 30 m mol/ kg of dry matter

Answer:



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72. Mottle leaf in citrus plants is due to deficiency of

Or

One of the causes of little leaf is due to deficiency of

A. Boron

B. Magnesium

C. Zinc

D. None of these

Answer:



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73. The deficiency of molybdenum induces

- A. Citrus die back disease
- B. Pea rossete disease
- C. Cauliflower whip tail disease
- D. White bud of maize

Answer:



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74. Boron in green plants assists in

- A. Sugar transport
- B. Activation of enzymes
- C. Acting an enzyme cofactor
- D. Photosynthesis

Answer:



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75. The deficiencies of micronutrients, not only affects growth of plants but also vital functions such as photosynthetic and mitochondrial electron flow. Among the list given below, which group of these elements shall affect most, both photosynthetic and mitochondrial electron transport

A. Cu, Mn, Fe

B. Co, Ni, Mo

C. Mn, Co, Ca

D. Ca, K, Na

Answer:



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76. The element arsenic, copper and mercury have which of the following effect

- A. Catalytic effect
- B. pH effect
- C. Toxic effect
- D. Antagonistic action

Answer:



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77. Deficiency of iron causes

- A. Bending of leaf tip
- B. Interveinal chlorosis first on young leaves
- C. Decreases of protein synthesis
- D. Reduced leaves and stunted growth

Answer:



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78. Zn, Mo, Fe, Cu are

- A. Trace elements
- B. Non-essential elements
- C. Macro nutrients
- D. None of these

Answer:



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79. Gray speck disease in oats takes place by the distance deficiency of

- A. Zinc

B. Copper

C. Potassium

D. Manganese

Answer: D



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80. Which of the following is not a micro or trace element for plant growth

A. Boron

B. Molybdenum

C. Manganese

D. Calcium

Answer:



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81. Which one of the following is not a micronutrient

- A. Boron
- B. Molybdenum
- C. Magnesium
- D. Zinc

Answer:



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82. The micronutrient least required by plants is

- A. Calcium
- B. Nickel
- C. Manganese
- D. Boron

Answer:



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83. The plants accept Zn as

A. Zn

B. Zn^{2+}

C. ZnO

D. $ZnSO_4$

Answer:



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84. Major role of mirror essential elements is to act as

A. Co-factors of enzymes

B. Building blocks of important amino acids

C. Constituents of hormones

D. Binders of cell structure

Answer:



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85. Which one of the following elements plays an important role in biological nitrogen fixation

or

Browning of cauliflower takes due to deficiency of which one of the following elements

A. Molybdenum

B. Manganese

C. Copper

D. Zinc

Answer:



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86. Which one of the following nutrient serves as micro elements for plant growth

- A. Manganese, copper, calcium, zinc
- B. Sodium, potassium, boron, chlorine
- C. Sodium, nickel, chlorine, copper
- D. Copper, molybdenum, zinc, nickel

Answer:



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87. Which of the following is micro-element in plant

A. Manganese

B. Nitrogen

C. Magnesium

D. Calcium

Answer:



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88. Which of the following is the importance of molybdenum in plants metabolism

A. Carbon assimilation

B. Nitrate reduction

C. Plant breeding

D. Chromosome contraction

Answer:



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89. Which of the following element is a component of ferredoxin

A. Cu

B. Mn

C. Zn

D. Fe

Answer:



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90. Conduction of inorganic materials in plants occur mainly through or
Minerals absorbed by roots move to the leaf through

A. Xylem

B. Phloem

C. Sieve tube

D. None

Answer:



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91. Active transport from outside to inside of molecules across a membrane requires

A. Cyclic AMP

B. Acetyl chlorine

C. ATP

D. Phloroglucinol

Answer: C



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92. Ion uptake is called active because

- A. Ions are active
- B. Energy is expended
- C. Ions move freely
- D. Ions move passively

Answer:



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93. Plants absorb mineral salts from the soil solution through

- A. A semipermeable membrane into the cytoplasm
- B. Perforation at the apex of root hair cells
- C. The cell wall which is semipermeable
- D. None of these

Answer: A



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94. The theory which suggest that the CO_2 produced in respiration plays an important role in mineral absorption

- A. Contact exchange theory
- B. Carbonic acid exchange theory
- C. Active absorption theory
- D. None of these

Answer:



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95. All mineral slats are absorbed in cells as

- A. Ions
- B. Atoms
- C. Molecules
- D. All the above

Answer:



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96. Carrier proteins are involved in

- A. Active transport of ions
- B. Passive transport of ions
- C. Water transport
- D. Water evaporation

Answer: A



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97. which statement is incorrect for ion-channels

- A. They are proteins
- B. Movement through them is simple diffusion
- C. Movement through them is from high to low concentration
- D. All ions pass through the same type of channel

Answer:



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98. Entry of mineral ions in plant root cells by diffusion is

- A. Passive absorption
- B. Active absorption
- C. Osmosis

D. Endocytosis

Answer: A



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99. Active uptake of minerals by roots mainly depends on the

A. Availability of oxygen

B. Light

C. Temperature

D. Availability of carbon dioxide

Answer:



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100. The plany ash is an indication of

- A. Organic matter of plant
- B. Waste product
- C. Mineral salt absorbed by plants
- D. None of these

Answer: c



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101. Minerals are absorbed by a plant from the soil by a process

- A. Independent of water absorption
- B. Dependent on water absorption
- C. Dependent on strength of solution
- D. Dependent on osmosis

Answer:



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102. By which method ions absorbed by plants

- A. By difference in DPD
- B. By difference in water potential
- C. By carriers and pumps
- D. By molecular diffusion

Answer:



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103. Nobel prize of 1991 for discovering the single ion channels in cell was awarded to

- A. Waston and Hargobind Khorana
- B. Erwin Neher and Bert Stakmann
- C. Nirenberg and Kornberg

D. Holley and Matthaei

Answer:



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104. In the light of carrier concept, the transport of ion across the membrane is

- A. Passive process
- B. Non-osmotic process
- C. Osmotic process
- D. Active process

Answer:



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105. If the amount of an ion absorbed by a root hair cell at $0^{\circ}C$ is 5 gm and at $20^{\circ}C$ is 20 gm. The amount of this ion absorbed actively should be

- A. 25 gm
- B. 20 gm
- C. 15 gm
- D. 5 gm

Answer:



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106. Solutes are absorbed by a plant cell through

- A. Osmosis
- B. Diffusion
- C. Active absorption

D. Passive absorption

Answer:



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107. Most of the plants obtain nitrogen from soil in the form of

- A. Free nitrogen gas
- B. Nitric acid
- C. Nitrite
- D. Nitrates and ammonium salt

Answer:



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108. In root nodules of legumes, leg-haemoglobin is important because

- A. It transports oxygen to the root nodule
- B. It acts as an oxygen scavenger
- C. It provides energy to the nitrogen fixing bacterium
- D. It acts as a catalyst in trans-amination

Answer:



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109. The possibility of increase of infection become more due to more supply of

- A. Potassium
- B. Magnesium
- C. Copper
- D. Nitrogen

Answer: d

110. Cell elongation is adversely affected by

Or

Element required by plant in large quantity is

- A. Sodium
- B. Cobalt
- C. Manganese
- D. Nitrogen

Answer: d

111. The enzyme responsible for the reduction of molecular nitrogen to the level of ammonia in leguminous root nodule is

Or

The enzyme responsible for atmospheric nitrogen fixation is

- A. Nitrogenase
- B. Nitrate reductase
- C. Nitrite reductase
- D. Hydrogenase

Answer:



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112. An important essential element is necessary in plants for protein synthesis

Or

The most important element associated with protoplasm and proteinaceous materials of plant is

- A. Calcium

B. Phosphorus

C. Magnesium

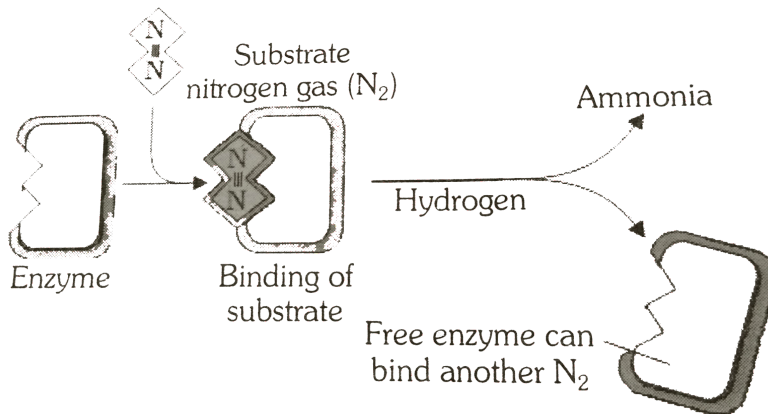
D. Nitrogen

Answer:



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113. The given figure represents the Nitrogens fixation. See the diagram and select the correct option



I. Nitrogenase catalyses the reaction

II. The formation of ammonia is a reductive process

III. One molecule of nitrogen produces two molecules of ammonia

IV. Nitrate reductase catalyse the reaction

V. Formation of ammonia is an oxidation process

VI. One molecule of nitrogen produces one molecule of ammonia

A. III, IV and V are correct

B. I, V and VI are correct

C. IV, V and VI are correct

D. I, II and III are correct

Answer:



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114. Nitrogen is an important constituent of

A. Proteins

B. Lipids

C. Carbohydrates

D. Polyphosphates

Answer:



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115. $N_2 + 8e^- + 8H^+ + 16ATP \rightarrow 2NH_3 + H_2 + 16ADP + 16H^+$ The above equation refers to

- A. Ammonification
- B. Nitrification
- C. Nitrogen fixation
- D. Denitrification

Answer:



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116. For its action, nitrogenase requires

- A. High input of energy
- B. Light
- C. Mn^{2+}
- D. Super oxygen radicals

Answer:



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117. Which one of the following can fix atmospheric nitrogen directly

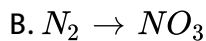
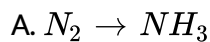
- A. Pea
- B. Brassica
- C. Castor
- D. Petunia

Answer:



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118. N_2 fixation is



D. Both (a) and (b)

Answer:



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119. Nodules with nitrogen fixing bacteria are present in

A. Cotton

B. Gram

C. Wheat

D. Mustard

Answer: B



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120. Legume plants are important for atmosphere because they

A. Help in NO_2 fixation

B. Not help in NO_2 fixation

C. Increased soil fertility

D. All of these

Answer:



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121. Knot like bodies known as nodules found in the roots of groundnut plant are produced by

- A. Azospirillum
- B. Azotobacter
- C. Pseudomonas
- D. Rhizobium

Answer:



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122. The limiting factor in nitrification of soil is

- A. Soil nature (pH)
- B. Light
- C. Temperature
- D. Air

Answer: 1



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123. Which of the following pigments is essential for nitrogen fixation by leguminous plants

- A. Anthocyanin
- B. Phycocyanin
- C. Phycoerythrin
- D. Leghaemoglobin

Answer:



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124. Fertilizers have a formula written in a set of three figures 8 -10-22
What for does it stand

A. % of Ca, Mg, P

B. % of N, S, P

C. % of N, P, K

D. % of Fe, Mg, K

Answer: 3



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125. The conversion of ammonia into nitrites and nitrates is called

A. Ammonification

B. Nitrification

C. Denitrification

D. All of these

Answer:



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126. Nif genes occur in

- A. Rhizobium
- B. Aspergillus
- C. Penicillium
- D. Streptococcus

Answer: A



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127. Nitrates are converted to nitrogen by

- A. Nitrogen fixing bacteria
- B. Ammonification bacteria
- C. Denitrifying bacteria

D. Nitrifying bacteria

Answer:



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128. Symbiotic nitrogen fixation in non - leguminous plant is carried out by

A. Azotobacter

B. Brodyrhizobium

C. Clostridium

D. Frankia

Answer: D



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129. Leguminous plants are able to fix atmospheric nitrogen through the process of symbiotic nitrogen fixation. Which one of the following statements is not correct for this process of nitrogen fixation ?

- A. Leg haemoglobin scavenges oxygen and is pinkish in colour
- B. Nodules act as sites for nitrogen fixation
- C. The enzyme nitrogenase catalyses the conversion of atmospheric $n_2 \rightarrow NH_3$
- D. Nitrogenase is insensitive to oxygen

Answer:



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130. Higher plants obtain nitrogen from soil that has

- A. Six forms (NO_3 , NO_2 , N_2 , N_2O , N_2OH , NH_3) of nitrogen with oxidation number ranging from $+5 \rightarrow -3$

- B. Six forms (NO_3 , NO_2 , N_2O_2 , N_2 , NH_2OH , NH_3) of nitrogen with oxidation number ranging from $+6 \rightarrow -3$
- C. Five forms (NO_3 , NO_2 , N_2 , NH_2OH , NH_3) of nitrogen with oxidation number ranging from $+5 \rightarrow -3$
- D. Five forms (NO_3 , NO_2 , N_2 , NH_2OH , NH_3) of nitrogen with oxidation number ranging from $+6 \rightarrow -3$

Answer: c



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131. The first stable product of fixation of atmospheric nitrogen in leguminous plants is

- A. Glutamate
- B. NO_2^-
- C. Ammonia

D. NO_3^-

Answer: C



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132. Which two distinct microbial processes are responsible for the release of fixed nitrogen as dinitrogen gas (N_2) to the atmosphere

- A. Aerobic nitrate oxidation and nitrite reduction
- B. Decomposition of organic nitrogen and conversion of dinitrogen to ammonium compounds
- C. Enteric fermentation in cattle and nitrogen fixation by *Rhizobium* in root nodules of legumes
- D. Anaerobic ammonium oxidation and denitrification

Answer: d



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133. A plant that manufactures its own food is

- A. Autotroph
- B. Parasite
- C. Epiphyte
- D. Saprophyte

Answer:



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134. Plants which are unable to manufacture their food wholly or partially are

- A. Autophytes
- B. Heterophytes
- C. Halophytes

D. Holophytes

Answer:



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135. In *Nepenthes* (Pitcher plant) the pitcher is formed due to modification of

- A. Leaf petiole
- B. Leaf lamina
- C. Tendril
- D. Leaflet

Answer:



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136. Epiphytes are the plants which are dependent on other plants

- A. Only for water
- B. For water and food
- C. Only for food
- D. Only for shelter (support)

Answer:



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137. Partial parasite is dependent upon the host for

- A. Support
- B. Food at times
- C. Water
- D. Water and minerals

Answer:



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138. *Cuscuta* is an example of

- A. Ectoparasitism
- B. Brood parasitism
- C. Predation
- D. Endoparasitism

Answer:



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139. *Viscum album* grows on trees This is an example of

- A. Symbiosis

B. Parasitism

C. Commensalism

D. Predation

Answer:



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140. Insectivorous plants usually grow in soils which are deficient in

A. Nitrogen

B. Water

C. Organic matter

D. Ca/Mg

Answer:



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141. Viscum and loranthus are

- A. Paritital root parasite
- B. partial stem parasite
- C. Total root parasite
- D. Total stem parasite

Answer:



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142. Drosera catches insects by means of

- A. Bladder
- B. Pitcher
- C. Tentacles secreting shining liquid
- D. Adhesive disc

Answer:



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143. Balanophora/Orobanche is a or Biggest flower belongs to a plant which is

- A. Total root parasite
- B. Partial root parasite
- C. Partial stem parasite
- D. Total stem parasite

Answer:



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144. Santalum album is

A. Partial root parasite

B. partial stem parasite

C. Total stem parasite

D. Total root parasite

Answer:



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145. Select the one, which is pitcher plant

A. Drosera

B. Utricularia

C. Sarracenia

D. Aldrovanda

Answer:



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146. Majority of the orchids are or A plant growing on another plant without drawing any nourishment is

- A. Epizoics
- B. Epiphytes
- C. Saprophytes
- D. Parasites

Answer:



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147. Botanical name of Venus Fly trap is or Insectivorous plant with rosette of spiny margined bilobed hinged and winged leaves for catching the prey is

- A. Aldrovanda

B. *Dionaea muscipula*

C. *Utricularia*

D. *Nepenthes*

Answer:



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148. One of the following is an insectivorous plant

A. *Balanophora*

B. *Orobanch*

C. *Rafflesia*

D. *Drosera*

Answer:



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149. Which one is the largest root parasite

- A. Rafflesia
- B. Monotropa
- C. Arceuthobium
- D. All of these

Answer:



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150. *Nepenthes khasiana* is *a/an*

- A. Fungicidal and wet land plant
- B. Insectivorous and endangered /endemic plant
- C. Fungicidal and endangered plant
- D. Insectivorous and wet land plant

Answer:



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151. Botanical generic name of bladderwort is or A rootless aquatic in which a portion of leaf is modified to form a bladder for catching small aquatic animals is

- A. Drosera
- B. Nepenthes
- C. Utricularia
- D. Dionaea

Answer:



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152. Plants obtaining food from other plants by means haustoria are

A. Symbionts

B. Parasites

C. Hydrophytes

D. Saprophytes

Answer:



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153. Insects captured by carnivorous plants partially meet their requirement of

A. Organic matter

B. Enzymes

C. Water

D. Nitrogen

Answer:



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154. *Nepenthes* is

- A. Both producer and primary carnivore
- B. Producer
- C. Consumer
- D. None of these

Answer:



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155. *Rhizophora* is an example of or the plants that grow on saline soils with high concentration of $NaCl$, $MgSO_4$ and $MgCl_2$ are called

- A. Lithophyte
- B. Fresh water aquatic

C. Mesophyte

D. Halophyte

Answer:



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156. A plant living symbiotically inside another plant is

A. Saprophyte

B. Endophyte

C. Semiparasite

D. Parasite

Answer:



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157. which is not an insectivorous plant or A pitcher plant without lid

- A. Dionaea
- B. Dischidia
- C. Drosera
- D. Pinguicula

Answer:



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158. A pair of insectivorous plants is

- A. Drosera and Rafflesia
- B. Nepenthes and Bladderwort
- C. Dionaea and Viscum
- D. Venus fly trap and Rafflesia

Answer:



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159. Match the following with correct combination

Column I	Column II
A Cuscuta	1 Saprophyte
B Eichornia	2 Pneumatophore
C Monotropa	3 Insectivorous plant
D Rhizophora	4 Parasite
E Utricularia	5 Root pocket

A. A-4, B-3, C-1, D-5, E-2

B. A-4, B-5, C-1, D-2, E-3

C. A-2, B-3, C-1, D-5, E-4

D. A-3, B-1, C-5, D-4, E-2

Answer:



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160. Pitcher plant is

or

Drosera and Sarracenia are

- A. Herbivorous
- B. Carnivorous
- C. Saphrotroph
- D. All of these

Answer:



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161. Which of the following is not an insectivorous plant

- A. Drosera
- B. Nepenthes
- C. Monotropa

D. Utricularia

Answer:



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162. When a plant undergoes senescence, the nutrients may be

- A. Exported
- B. Withdrawn
- C. Translocated
- D. None of the above

Answer:



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163. Choose the correct option Mycorrhiza is a symbiotic association of fungus with root system which helps in

A. absorption of water

B. mineral nutrition

C. translocation

D. gaseous exchange.

A. only A

B. only B

C. Both A and B

D. Both B and C

Answer:



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164. Which one of the following roles is not characteristic of an essential element?

- A. Being a component of biomolecules
- B. Changing the chemistry of soil
- C. Being a structural component of energy related chemical compounds
- D. Activation or inhibition of enzymes

Answer:



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165. Which one of the following statements can best explain the term critical concentration of an essential element?

- A. Essential element concentration below which plant growth is retarded
- B. Essential element concentration below which plant growth becomes stunted

- C. Essential element concentration below which plant remains in the vegetative phase
- D. None of the above

Answer: A



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166. Deficiency symptoms of an element tend to appear first in young leaves. It indicates that the element is relatively immobile. Which one of the following elemental deficiency would show such symptoms?

- A. Sulphur
- B. Magnesium
- C. Nitrogen
- D. Potassium

Answer:

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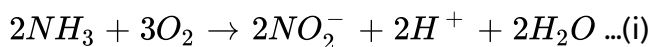
167. Which one of the following symptoms is not due to manganese toxicity in plants?

- A. Calcium translocation in shoot apex is inhibited
- B. Deficiency in both Iron and Nitrogen is induced
- C. Appearance of brown spot surrounded by chlorotic veins
- D. None of the above

Answer: B

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168. Reaction carried out by N_2 fixing microbes include



$2NO_2^- + O_2 \rightarrow 2NO_3^- \text{ ... (ii)}$ Which of the following statements about these equations is not true?

- A. Step (i) is carried out by Nitrosomonas or Nitrococcus
- B. Step (ii) is carried out by Nitrohacter
- C. Both steps (i) and (ii) can be called nitrification
- D. Bacteria carrying out these steps are usually photoautotrophs

Answer:



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169. With regard to the biological nitrogen fixation by Rhizobium in association with soy bean, which one of the following statement/statements does not hold true?

- A. Nitrogenase may require oxygen for its functioning
- B. Nitrogenase is MO-Fe protein
- C. Leg -haemoglobin is a pink coloured pigment
- D. Nitrogenase helps to convert N_2 gas into two molecular of ammonia

Answer:



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170. Match the element with its associated functions/roles and choose the correct option among given below.

- | | |
|----------------------|--|
| <i>A.</i> Boron | <i>(i).</i> Splitting of H_2O to liberate O_2 during |
| <i>B.</i> Manganese | <i>(ii).</i> Needed for synthesis of auxins |
| <i>C.</i> Molybdenum | <i>(iii).</i> component of nitrogenase |
| <i>D.</i> Zinc | <i>(iv).</i> Pollen germination |
| <i>E.</i> Iron | <i>(v).</i> Component of ferredoxin |

A. A - i, B - ii, C - iii, D - iv, E - v

B. A - iv, B-i, C-iii, D-ii, E-v

C. A-iii, B-ii, C-iv, D-v, E-i

D. A-ii, B-iii, C-v, D-i, E-iv

Answer:



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171. Plants can be grown in (Tick the incorrect option)

- A. Soil with essential nutrients
- B. Water with essential nutrients
- C. Either water or soil with essential nutrients
- D. Water or soil without essential nutrients

Answer:



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172. Which of the following deficiency may cause leaf tip bending

- A. Sulphur
- B. Nitrogen
- C. Phosphorus
- D. Calcium

Answer:



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173. EDTA is much used in tissue cultures, it is a

A. Hormone

B. Vitamin

C. Buffer

D. Nutrient

Answer: c



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174. Match the following and choose the correct combination from the options given

	Column I		Column II
<i>A</i>	Potassium	1	Constituent of ferredoxin
<i>B</i>	Sulphur	2	Involved in stomatal movement
<i>C</i>	Molybdenum	3	Needed in the synthesis of auxin
<i>D</i>	Zinc	4	Component of nitrogenase

A. A-2, B-1 , C-4, D-3

B. A-1, B-2, C-3, D-4

C. A-4, B-3, C-2, D-1

D. A-1, B-3, C-4, D-2

Answer: A



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175. Minerals known to be required in large amounts for plant growth include

A. Calcium, magnesium, manganese, copper

B. Potassium, phosphorous, selenium, boron

C. Magnesium, Sulphur, iron, zinc

D. Phosphorus, potassium, sulphur. Calcium

Answer: d



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176. Match the following mineral element with their deficiency symptom and choose the correct option

Column I	Column II
<i>A</i> Calcium	1 Chlorotic veins
<i>B</i> Potassium	2 Delayed germination of seeds
<i>C</i> Zinc	3 Necrosis of young leaves
<i>D</i> Iron	4 Scorched leaf tips
<i>E</i> Phosphorous	5 Malformed leaves

A. A-3, B-1, C-5, D-2, E-4

B. A-1, B-4, C-5, D-3, E-2

C. A-3, B-4, C-5, D-1, E-2

D. A-2, B-3, C-4, D-1, E-5

Answer: c



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177. Which of the following is considered to be the best chemical method of fixing atmospheric nitrogen

- A. Fisher method
- B. Decan method
- C. Haber-Bosch method
- D. Paranas-Meyerhoff method

Answer: c



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178. Fly -ash is a/an

- A. Infection particulate matter
- B. Light airborne particulate matter

C. New name of orchid plant

D. Causal organism of various disease

Answer: b



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179. Which one of the followign is correctly matched

A. Passive transport of nutrients - ATP

B. Apoplast - Plasmodesmata

C. Potassium - Readily immobilisation

D. Bakane of rice seedlings - F.Skoog

Answer: c



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180. On the basis of symptoms of chlorosis in leaves, a student inferred that this was due to the deficiency of nitrogen. This inference could be correct only if yellowing of leaves appeared first in

- A. Young leaves
- B. Old leaves
- C. Young leaves followed by old leaves
- D. Old leaves followed by young leaves

Answer: b



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181. Aldrovanda is

- A. Fly catcher plant
- B. Water flea trap
- C. Devil's foot

D. None of these

Answer:



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182. Which of the following shows that metabolic energy is required in the absorption of ions

- A. More ions absorption in presence of oxygen
- B. Less absorption of ions in presence of oxygen
- C. More ions absorption in presence of ATP
- D. More ions absorption in presence of NAD

Answer: B



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183. According to the well known theory of transport of solutes across a cell membrane, what happens when sugar is passed through it

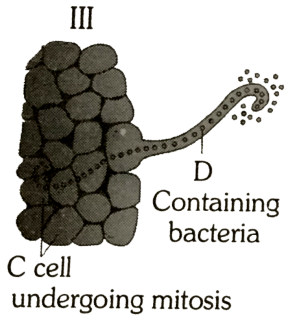
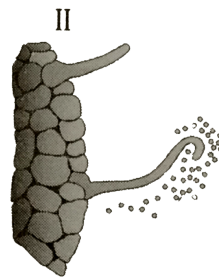
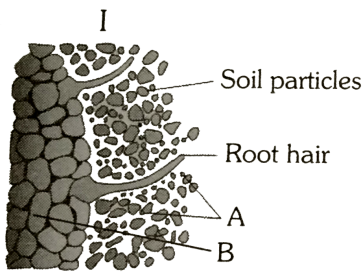
- A. Na^+ flows in the direction of the sugar
- B. Na^+ flows independent of sugar molecules
- C. Na^+ flows against the sugar molecules
- D. Na^+ ions do not flow at all

Answer: 3



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184. The given figure indicates the development of root nodule in soyabean



Identify A, B, C and D respectively

A. A- Nitrosomonas bacteria, B- Cortex cell, C - Inner cortex, D -

Infection thread

B. A - Rhizobial bacteria, B - Endodermal cell , C - Inner Endodermis, D-

Infection thread

C. A - Rhizobial bacteria, B - Cortex cell, C- Inner cortex, D - Infection

thread

D. A - Rhizobial bacteria, B - Cortex cell, C - Outer cortex, D - Infection

thread

Answer: c



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185. The smallest angiospermic/dicot parasite is

A. Arceuthobium

B. Wolffia

C. Cassytha

D. Rafflesia

Answer: a



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186. Fertility of the soil in rice fields can be improved by

- A. Gypsum
- B. Sodium chloride
- C. Blue green alage
- D. Rhizobium

Answer: C



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187. Which of the following elements is responsible for maintaining turgor in cells

- A. Magnesium
- B. Sodium
- C. Potassium
- D. Calcium

Answer: c



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188. Assertion : Plants lack excretory organs.

Reason : Plant usually absorb essential nutrients and lead a passive life.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer: b



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189. Assertion : Leguminous plants are nitrogen fixers.

Reason : Leguminous plants have Rhizobium in their root nodules

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer: a



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190. Assertion : Insectivorous habitat of plants is to cope up O_2 deficiency

Reason : Insectivorous plants are partly autotrophic and partly heterotrophic

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If the assertion is false but reason is true

Answer: d



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191. Assertion : Use of fertilizers greatly enhances crop productivity

Reason : Irrigation is very important in increasing crop productivity.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion

- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer:



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192. Assertion: Hydroponics is used for solution culture.

Reason : A balanced nutrient solution contains both essential and nonessential elements

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false

D. If both the assertion and reason are false

Answer:



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193. Assertion : The leaves of cauliflower becomes flaccid and brown in molybdenum deficiency

Reason : Cauliflower plant is affected by whiptail disease in molybdenum deficiency

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer:



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194. Assertion: In *Dionaea*, each lamina has marginal teeth

Reason : Marginal teeth of *Dionaea* help in prey capturing

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer:



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195. Assertion : Plants absorb nitrogen in the form of nitrates only.

Reason : Nitrogen is the most critical element.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If the assertion is false but reason is true

Answer:



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196. Assertion: Magnesium is important in photosynthesis and carbohydrate metabolism.

Reason : Mg^{++} is involved in the synthesis of nucleic acids

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer:



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197. Assertion: Manganese is an activation of enzyme nitrite reductase

Reason : Manganese deficient cells prefer ammonia over nitrate

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion

- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer:



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198. Assertion : Nitrogen - fixing bacteria in legume root nodules survive in oxygen - depleted cells of nodules.

Reason : Leghaemoglobin completely removes oxygen from the nodule cells.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion

C. If the assertion is true but the reason is false

D. If both the assertion and reason are false

Answer:



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199. Assertion: Deficiency of sulphur causes chlorosis in plants

Reason : Sulphur is a constituent of chlorophyll, proteins and nucleic acids.

A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion

B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion

C. If the assertion is true but the reason is false

D. If both the assertion and reason are false

Answer:



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200. Assertion : Exanthema disease occurs due to deficiency of manganese.

Reason : Reclamation is a disease of cereals

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If the assertion is false but reason is true

Answer:



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201. Assertion : Iron is a microelement

Reason : Microelements are required in traces only, less than 1 mg/gm of dry matter

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer:



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202. Assertion: In solution culture of plants, iron is added in the form of Fe-EDTA

Reason: Hydroponics set-up is costly

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer:



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203. The element which is required by the sea plants is

- A. Cobalt
- B. Zinc
- C. Copper

D. Sodium

Answer:



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204. The ability of the venus fly trap of capture insects is due to

- A. Chemical stimulation by the prey
- B. A passive process requiring no special ability on the part of the plant
- C. Specialized muscle-like cells
- D. Rapid turgor pressure changes

Answer: d



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205. It is possible to determine whether an element is essential by observing growth of plants

- A. On soil form which the particular element is removed
- B. On soil in which only the particular element is present
- C. On an inert medium to which solution of only the particular element is added
- D. On an inert medium to which a nutrient solution excluding that particular element, is added

Answer:



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206. Which statement is wrong

- A. Plants take very little amount of mineral elements from soil
- B. Plants absorb one thing at a time either water or mineral salt

C. Root hair absorb water and minerals together

D. Mineral absorption primarily takes place by active method

Answer: b



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207. Chlorosis, etiolation and albinism are caused by the deficiency of

A. Iron, light and certain genes

B. Zinc, iron, and magnesium

C. Magnesium, iron, zinc, light and certain genes

D. Manesium, zinc and light

Answer: C



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208. The association between ants and members of family rubiaceae is

- A. Ornithophily
- B. Entomophily
- C. Myrmecophily
- D. Anemophily

Answer: c



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209. A trace element essential for plant growth and radioactive isotope which is used in cancer therapy is known as

- A. Cobalt
- B. Iron
- C. Calcium
- D. Sodium

Answer: a



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210. The enzyme commonly presents in insectivorous plants to fulfil the need of their specific habit

A. Trypsin

B. Pepsin

C. Pectinase

D. Cellulase

Answer: 2



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211. An example of a parasitic plant that is also strictly epiphytic is

A. Cuscuta(dodder)

B. Viscum(mistletoe)

C. Refflesia

D. Orobanche

Answer: b



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