



BIOLOGY

BOOKS - NEET PREVIOUS YEAR (YEARWISE + CHAPTERWISE)

MINERAL NUTRITION

Mcqs

1. Select the mismatch

A. a-Frankia-Alnus

B. b-Rhodospirillum-Mycorrhiza

C. c-Anabaena-Nitrogen fixer

D. d-Rhizobium-Alfa-alfa

Answer: B



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

A. iron,copper,molybdenum

B. Molybdenum,magnesium, manganese

C. Nitrogen, carbon, phosphorus

D. Boron, zinc, manganese

Answer: C



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**3. Which is essential for the growth of root tip
?**

A. Zn

B. Fe

C. Ca

D. Mn

Answer: C



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4. During biological nitrogen fixation, inactivation of nitrogenase by oxygen poisoning is prevented by

A. Leghaemoglobin

B. Xanthophyll

C. carotene

D. cytochrome

Answer: A



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

A. senescent leaves

B. young leaves

C. roots

D. buds

Answer: A



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

A. NO_2^-

B. ammonia

C. NO_3^-

D. glutamate

Answer: B



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7. Which one of the following 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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8. Which one of the following helps in the absorption of phosphorus from soil by plants?

A. Rhizobium

B. Frankia

C. Anabaena

D. Glumus

Answer: D



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9. The function of leghaemoglobin in the root nodules of legumes is:-

A. Oxygen removal

B. nodule differentiation

C. expression of nif gene

D. inhibition of nitrogenase activity

Answer: A



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10. Nitrifying bacteria:-

A. convert free nitrogen to nitrogen compounds

B. convert proteins into ammonia

C. reduce nitrates to free nitrogen

D. oxidise ammonia to nitrates

Answer: D



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11. Which one of the following elements (micronutrients) in plants is not remobilised ?

A. Calcium

B. Potassium

C. Sulphur

D. Phosphorus

Answer: A



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12. Which one of the following is not a micronutrient

A. Molybdenum

B. Magnesium

C. Zinc

D. Boron

Answer: B



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13. An element playing important role in nitrogen fixation is

A. Molybdenum

B. copper

C. manganese

D. zinc

Answer: A



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14. The common nitrogen-fixer in paddy fields is

A. Rhizobium

B. Azospirillum

C. Oscillatoria

D. Frankia

Answer: B



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15. Manganese is required in

A. nucleic acid synthesis

B. plant cell wall formation

C. photolysis of water during
photosynthesis

D. chlorophyll synthesis

Answer: C



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16. Nitrogen fixation in root nodules of *Alnus* is brought about by

A. *Bradyrhizobium*

B. *Clostridium*

C. *Frankia*

D. *Azorhizobium*

Answer: C



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17. Which of the following is a flowering plant with nodules containing filamentous nitrogen-fixing microorganism

A. *Casuarina equisetifolia*

B. *Crotalaria juncea*

C. *Cycas revoluta*

D. *Cicer arietinum*

Answer: A



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18. Which one of the following elements is not an essential micronutrient for plant growth?

A. Mn

B. Zn

C. Cu

D. Ca

Answer: D



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19. a plant requires magnesium for :

A. Holding cells together

B. Protein synthesis

C. chlorophyll synthesis

D. fat synthesis

Answer: C



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20. 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 three elements shall affect the most, both photosynthetic and mitochondrial electron transport ?

A. Co, Ni, Mo

B. Ca, K, Na

C. Mn, Co, Ca

D. Cu,Mn,Fe

Answer: D



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21. A free-living nitrogen-fixing cyanobacterium which can also form symbiotic association with the water fern Azolla is :

A. Tolypothrix

B. Chlorella

C. Nostoc

D. Anabaena

Answer: D



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22. The major role of minor element inside living organisms is to act as:

A. binder of cell structure

B. cofactors of enzymes

C. building blocks of important amino acids

D. constituent of hormones

Answer: B



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23. Boron in green plants assists in

A. Sugar transport

B. activation of enzymes

C. acting as enzymes cofactor

D. photosynthesis

Answer: A



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24. Gray spots of oat are caused by the deficiency of

A. Fe

B. Cu

C. Zn

D. Mn

Answer: D



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25. The major portion of the dry weight of plants comprised of

A. carbon, hydrogen and oxygen

B. nitrogen, phosphorus and potassium

C. calcium, magnesium and sulphur

D. carbon, nitrogen and hydrogen

Answer: A



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26. Choose the correct match.

Bladderwort , sundew, venus, flytrap

A. nepenthes, dionea, drosera

B. Nepenthes, utricularia, vanda

C. Utricularia, drosera, dionea

D. Dionea, trapa, vanda

Answer: C



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27. Passive absorption of minerals depend on

A. temperature

B. temperature and metabolic inhibitor

C. metabolic inhibitor

D. humidity

Answer: A



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28. Enzyme involved in nitrogen assimilation

- A. nitrogenase
- B. nitrate reductase
- C. transferase
- D. trasaminase

Answer: A



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29. In plants, inulin and pectin are

- A. reserved material
- B. Wastes
- C. excretory material
- D. insect attracting material

Answer: A



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30. Which aquatic fern performs nitrogen fixation :

A. Azolla

B. Nostoc

C. Salvia

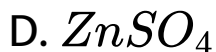
D. Salvinia

Answer: A



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31. Zinc as a nutrient is used by the plants in the form of



Answer: B



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32. The plants grown in magnesium deficient but urea sprayed soil would show

- A. deep green foliage
- B. early flowering
- C. yellowing of leaves
- D. loss of pigments in petals

Answer: C



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

A. necrosis

B. Chlorosis

C. Etiolation

D. Shorteining of internodes

Answer: C



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34. Which of the following is free-living aerobic non-photosynthetic nitrogen fixing bacterium

A. Rhizobium

B. Azotobacter

C. Azospirillum

D. Nostoc

Answer: B



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35. The core metal of chlorophyll is:-

A. iron

B. magnesium

C. nickel

D. copper

Answer: B



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36. Which one of the following is not an essential element for plants?

A. Potassium

B. Iron

C. Iodine

D. Zinc

Answer: C



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37. Which one of the following is a micronutrient ?

A. Calcium

B. Magnesium

C. Nitrogen

D. Manganese

Answer: C



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38. Which of the following can fix atmospheric nitrogen?

A. Albugo

B. Cytopus

C. Saprolegnia

D. Anabeana

Answer: D



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39. Phosphorus and nitrogen ions generally get depleted in soil because they usually occur as

- A. neutral ions
- B. negatively charged ions
- C. positively charged ions
- D. both positively and negatively charged but disproportionate mixture

Answer: B



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40. Minerals absorbed by roots move to the leaf through

A. xylem

B. phloem

C. sieve tubes

D. none

Answer: A



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