

DPP

DAILY PRACTICE PROBLEMS

Class : XIth
Date :

Subject : BIOLOGY
DPP No. : 3

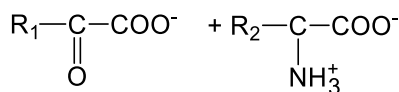
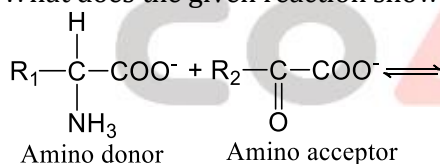
Topic :- Mineral Nutrition

1. Which of the following option shows correct co-relation between column I, II and III?

Column I	Column II	Column III
A. Calcium	I. Required for ionic balance	(i) Grey blot on leaves
B. Boron	II. Essential for constitution of nucleic acid	(ii) Fruit-yield decreases
C. Phosphorus	III. Required for absorption of calcium	(iii) Red blot on leaves
D. Chlorine	IV. Required to active respiratory enzyme	(iv) Fruit-size diminishes
E. Manganese	V. Required for synthesis of mitotic spindle	(v) Young root tip begin to die

- a) A-V-v, B-IV-iv, C-III-I, D-II-iii, E-I-ii
 b) A-V-v, B-III-iii, C-II-iii, D-I-ii, E-IV-i
 c) A-I-iv, B-II-v, C-III-iii, D-IV-I, E-V-ii
 d) A-IV-iii, B-I-iv, C-V-v, D-III-ii, E-II-i

2. What does the given reaction shows?

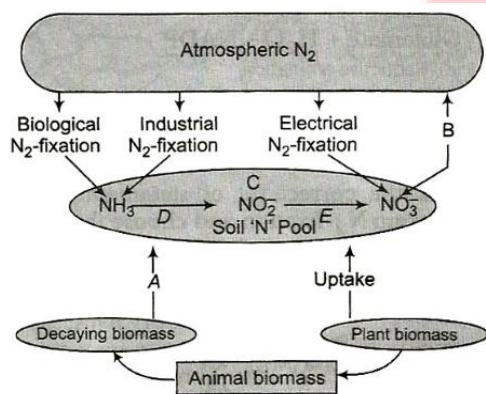


Choose the correct option

- a) Oxidative deamination
 b) Reductive amination
 c) Transamination
 d) Deamination
3. In hydroponics, chelating agent is used to
- a) Chelate metals
 b) Provide nutrition

- c) Provide non-stream conditions
d) All of the above
4. The term 'outer space' represents ...A..., while 'inner space' represents ...B... with reference to absorption of minerals
Identify A and B to complete the given statement
a) A-cytoplasm and vacuole, B-intercellular space and cell
b) A- intercellular space and cell wall, B- cytoplasm and vacuole
c) A-cytoplasm, B-vacuole
d) A-intercellular space, B-vacuole
5. Hydroponic tomatoes may not taste so fresh. Why?
a) The tomatoes are really potatoes in disguise b) The tomatoes are supposed to be green and sour, it makes them healthier for humans
c) They are picked too soon d) They are not picked soon enough
6. Which of the following is used as a chelating agent in hydroponics?
a) EDTA b) Iron c) Nitrogen d) Copper

7. Identify the labels in the given flow diagram which links the major nitrogen pools
Choose the correct combination from the options given below



- a) A-Nitrification, B-Ammonification, C-Nitrobacter, D-Nitrosomonas
b) A-Ammonification, B-Denitrification, C-Nitrification, D-Nitrosomonas, E-Nitrobacter
c) A-Denitrification, B-Nitrobacter, C-Nitrification, D-Nitrosomonas, E-Ammonification
d) A-Nitrobacter; B-Denitrification, C-Nitrosomonas, D-Ammonification
8. Sulphur is an important nutrient for optimum growth and productivity in
a) Pulse crops b) Cereals c) Fibre crops d) Oilseed crops
9. Which of the following are reservoirs for phosphorus and nitrogen cycle respectively?
a) Atmosphere and bedrocks b) Bedrocks and atmosphere
c) Consumers d) Atmosphere and producers
10. The organ in *Viscum* that absorb nutrients is known
a) Haustoria b) Rhizophore c) Roots d) None of these
11. Insectivorous plants live in a soil that is usually deficient in
a) Nitrate b) Chloride c) Potassium d) Magnesium
12. Humans is essential for plant growth because

- a) It is rich in nutrients and increases the water holding capacity of soil
- b) It increases aeration of soil
- c) It increases porosity of soil
- d) All of the above

13. Read the functions given below and identify the concerned nutrient

- I. Activator of catalase
- II. Important constituent of cytochrome
- III. Important constituent of proteins involved in ETS
- IV. Essential for chlorophyll synthesis

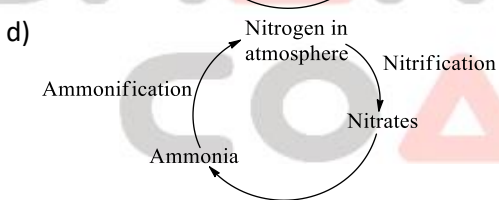
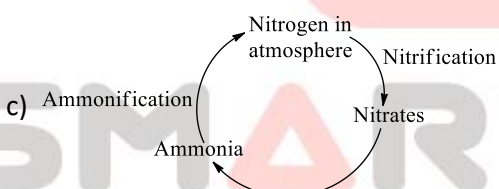
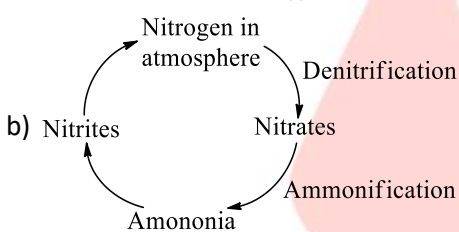
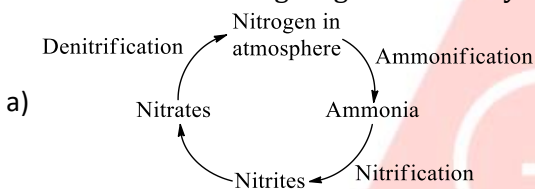
- a) Mo b) Fe c) Cu d) Ca

14. Nitrogen is present in the soil in the form of

- I. Nitrates II. Ammonical salts
- III. Nitrite IV. None of these

- a) Only I b) Only III c) I and II d) Only IV

15. Which of the following diagram correctly depicts N_2 -cycle?



16. 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 most, both photosynthetic and mitochondrial electron transport?

- a) Cu, Mn and Fe b) Co, Ni and Mo c) Mn, Co and Ca d) Ca, K and Na

17. Which of the following is a bacterium involved in denitrification?

- a) Nitrococcus b) Nitosomonas c) Pseudomonas d) Nitrobacter



18. The major role of minor elements inside living organisms is to act as
- a) Constituents
 - b) Binder of cell structure
 - c) Cofactors of enzymes
 - d) Building blocks of important amino acids
19. Which of the following is one of the component of ATP?
- a) Potassium
 - b) Phosphorus
 - c) Magnesium
 - d) Manganese
20. Hydroponics is a technique of growing plants in a
- a) Soil solution
 - b) Nutrient solution
 - c) Both (a) and (b)
 - d) None of the above



SMARTLEARN
COACHING