

## DPP

DAILY PRACTICE PROBLEMS

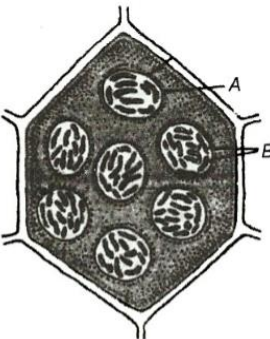
Class : XI<sup>th</sup>

Date :

Subject : **BIOLOGY**

DPP No. : 2

### Topic :- Mineral Nutrition

- Which of the given options are correct for hydroponics? Select the correct pair  
 I. Hydroponics technique is useful in areas having infertile and dry soils  
 II. Hydroponics can regulate pH optimum for a particular crop  
 III. It increases the labour cost  
 IV. It increases the problem of weeding  
 a) I and IV                      b) I and II                      c) I and III                      d) Only I
- Phosphorus is absorbed by the plants as  
 I.  $\text{H}_2\text{PO}_4^-$     II.  $\text{HPO}_4$   
 III.  $\text{HPO}_4^{2-}$     IV.  $\text{H}_2\text{PO}^-$   
 a) Only I                      b) Only III                      c) I and III                      d) Only II
- Insectivorous plants eats the insect for  
 a) Na-K                      b) Nitrogen                      c) Chlorine                      d) Phosphorus
- Aeroponics are  
 a) Aerial plants                      b) Aerated plants  
 c) Soilers cultivated plants                      d) None of these
- Given diagram belongs to bacteroids in nodule. Identify A and B and choose the correct option accordingly  


a) A-Bacteria; B-Bacteroids                      b) A-Leghaemoglobin; B-Bacteroides  
 c) A-Bacteroids; B-Bacteria                      d) A-Bacteroids; B-Leghaemoglobin
- Insectivorous plants eats insects for their requirement of  
 a) Sodium-potassium    b) Nitrogen                      c) Chlorine                      d) Phosphorus
- Molybdenum is the essential constituent of  
 a) Nitrogenase                      b) Respiratory chain    c) Growth regulators    d) Chlorophyll
- Select the correct statement.

- a) Legumes are incapable of fixing nitrogen  
 b) Legumes fix nitrogen through bacteria living in fruits  
 c) Legumes fix nitrogen only by bacteria present in root nodules  
 d) None of the above
9. Which among the following are used as media for hydroponics?  
 a) Coco air                      b) Rock cool                      c) Gravel                      d) All of these
10. The core metal of chlorophyll is  
 a) Fe                      b) Mg                      c) Ni                      d) Cu
11. Identify the elements which functions as the components of biomolecules  
 I. Hydrogen    II. Magnesium  
 III. Oxygen    IV. Nitrogen  
 a) Only IV                      b) Only II                      c) I, II, III and IV                      d) All except II
12. Potassium is required by which of the following regions of plants  
 I. Meristematic tissues    II. Buds  
 III. Leaves                      IV. Root tips  
 a) Only I                      b) I and IV                      c) II and IV                      d) All of these
13. In root nodules of legumes, leghaemoglobin is important because it  
 a) Transports oxygen to the root nodule  
 b) Acts as an oxygen scavenger  
 c) Provides energy to the nitrogen fixing bacterium  
 d) Acts as a catalyst in transamination
14. The number of essential elements known for the growth and reproduction of plants is  
 a) 27                      b) 15                      c) 17                      d) 9
15. Which of the following minerals activate the enzymes involved in respiration?  
 a) Nitrogen and phosphorus                      b) Magnesium and manganese  
 c) Potassium and calcium                      d) Suluur and iron
16. Which of the following is not caused by deficiency of mineral?  
 a) Chlorosis                      b) Etiolation  
 c) Shortening of internodes                      d) Necrosis
17. Crop rotation is used by farmers to increase  
 a) Soil fertility                      b) Community area  
 c) Organic content of soil                      d) Nitrogenous content in the soil
18. The enzyme responsible for the reduction of molecular nitrogen to the level of ammonia in leguminous root nodule is  
 a) Nitrogenase                      b) Nitrate reductase                      c) Nitrite reductase                      d) Hydrogenase
19. Soil is able to maintain a regular supply of minerals by the help of which of the following?  
 I. Slow vegetation  
 II. Activity of decomposers  
 III. Soil erosion

IV. Weathering of rocks

- a) Only IV                      b) Only I                      c) IV and II                      d) All of the above

20. Select the match ones.

- |             |               |                              |              |
|-------------|---------------|------------------------------|--------------|
| I           | Nitrosomonas  | - Nitrite to nitrate         |              |
| II          | Thiobacillus  | - Denitrification            |              |
| III         | Nostoc        | - Free-living nitrogen-fixer |              |
| IV          | Azotobacter   | - Anaerobic nitrogen-fixer   |              |
| a) I and II | b) III and IV | c) II and III                | d) II and IV |



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