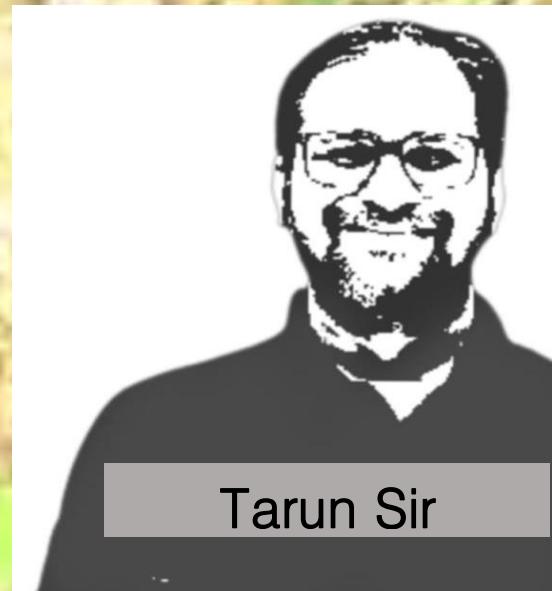


DOPA - 01



Tarun Sir

Complete plant physiology

1. Mark the correctly matched
(A) Pump - Simple diffusion
(B) Root pressure - Positive pressure
(C) Guard cell - Lack chloroplast
(D) K^+ - Malate theory - Explain transpiration pull
2. Root nodule involveLayers of root
(A) Xylem (B) Cortex only
(C) Inner cortex and pericycle
(D) Outer cortex and epidermis
3. Primary acceptor of CO_2 in mesophyll cell in maize during photosynthesis
(A) RUBP (B) PEP
(C) PGA (D) OAA
4. RQ value for aerobic respiration for fructose is
(A) 1 (B) 0.7
(C) 0.9 (D) 1.5
5. Features of cells in merismatic zone?
(A) Large vacuole
(B) Small vacuole and thick cell wall
(C) Multiple plasmodesmata connection
(D) Size of cell is fix
6. Most valid theory for ascent of sap is
(A) K^+ malate theory
(B) Cohesion tension transpiration pull theory
(C) Root pressure theory
(D) None
7. Mineral require for both photosynthesis and respiration, also part of chlorophyll
(A) K^+ (B) Mg
(C) Cl (D) Fe

8. Saturation concentration for C-3 plant is
(A) Above atmospheric CO₂ concentration
(B) Below atmospheric CO₂ concentration
(C) Below saturation concentration of C-4 plants
(D) Equal to atmospheric CO₂ concentration
9. Number of steps in glycolysis involve substrate level photophorylation
(A) One
(B) two
(C) three
(D) four
10. Promotion of female flower in cucumber is done by
(A) GA₃
(B) 2, 4-D
(C) ABA
(D) Ethephon
11. Water potential of water with solute in open beaker
(A) Positive
(B) Negative
(C) Zero
(D) Any one of the above
12. Enzyme responsible for synthesis of glutamate in plants is
(A) Glutamate synthase
(B) Glutamate oxidase
(C) Glutamate dehydrogenase
(D) Glutamate hydrolase
13. First action spectrum was discovered by
(A) T. W. Englemann
(B) Blackman
(C) Priestley
(D) Von Sach
14. Alcohol dehydrogenase enzyme involve in
(A) Ethanol fermentation
(B) Lactic acid fermentation
(C) Photophosphorylation
(D) Pyruvate decarboxylation
15. Hormone involve in Hastening Juvenile phase in conifers
(A) GA
(B) Ethylene
(C) ABA
(D) Cytokinin

16. Root pressure is develop due to -
(A) active accumulation of mineral in phloem
(B) active accumulation of mineral in xylem
(C) passive accumulation of mineral in leaf
(D) none
17. Which of the following is role of potassium is important for transpiration
(A) affect turgidity of guard cell
(B) decrease turgidity of guard cell
(C) help in maintaining pressure potential in endodermal cell
(D) increase water inside subsidiary cell
18. Which of the following is not feature of bundle sheath cell in C -4 plant
(A) impervious (B) rubisco present
(C) PEPcase present (D) large number of chloroplast
19. Which of the following complex of ETS have two copper centre
(A) complex -II (B) complex -IV
(C) complex -I (D) complex-III
20. Heterophylly is example of
(A) photoperiodism (B) vernalisation
(C) plasticity (D) bolting

1. Answer key of DOPA will be available along with
DOPA-02

2. 100 days total 100 dopa

3. Syllabus of each DOPA is mentioned on top of each
DOPA

4. DOPA is a random check to give insight of your
preparation level

5. Every DOPA carry new questions based on ncert