

B.Sc. VI Semester (New CBCS) Degree Examination, May/June-2019

BOTANY

Plant Physiology

Paper No. - B:6.2

Time : 3 Hours

Maximum Marks : 70

Instructions to Candidates:

- a) Answer all the Sections
- b) Draw diagrams wherever necessary.

SECTION - A

Answer the following.

(15×1=15)

1. Who proposed the Transpiration pull theory of Ascent of Sap?
2. Define the term Growth.
3. What are Phycabillins?
4. Name the enzyme necessary for the oxidation of 3PGAL.
5. What is Imbibition?
6. Write the Empirical formula of Chla and Chlb.
7. Define Incipient plasmolysis.
8. What is Chlorosis?
9. What is Seismonastic Movement?
10. What is Gravitational Water?
11. What are photons or Quantasomes?
12. What are the Enzymes?
13. What are the end products of light reaction of photosynthesis?
14. What is Ascent of Sap?
15. What are Phytohormones?

P.T.O

SECTION - B

(5×5=25)

Answer any FIVE of the following

16. Establish the relationship between OP, TP and DPD
17. Explain the Hatch-Slack Pathway.
18. Explain the mechanism of light reaction.
19. Explain the Cohesion Tension theory of Ascent of Sap in Plants.
20. Explain the Malate hypothesis.
21. Explain the various steps and enzymes involved in Krebs's Cycle.
22. Explain the Plasmolysis with example.

SECTION - C

(3×10=30)

Answer any THREE of the following

23. What is R.Q? Why does it differ in various plant tissues? How will you measure it
24. Explain the C_3 cycle
25. 'Transpiration is a necessary Evil' Discuss
26. Tabulate the differences between C_3 and C_4 plants.
27. Describe the Mechanism of Water absorption in plants