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 wherver necessary.

SECTION - A

Answer the following.

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- 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 Empherical formula or 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?

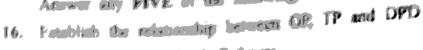
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SECTION - B

Attenue any PIVE of the following-



- 17. Explain the Match-Slack Pathway.
- Explain the mechanism of light reaction.
- 19. Explain the Cohemon Texaion theory of Ascent of Sap in Plants.
- 20. Explain the Malate hypothemi-
- 21. Explain the various steps and enzymes involved in Kreb's Cycle.
- 22. Explain the Plasmolysis with example.

SECTION - C

Answer any THREE of the following.

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- 23. What is R.Q? Why does a differe in various plant taisues? How will you measure if
- 24. Explain the C, cycle
- 25. 'Transpiration is a necessary Evil' Discuss
- 26. Tabulate the differences between C, and C, plants.
- 27. Describe the Mechanism of Water almorption in plant