

CODE: **196409**
NOVEMBER 2020

TIME: 3 Hrs
MAX. MARKS: 50

PART A

(10 x 2=20)

Answer any **TEN** questions

Define / Explain the following.

1. Turgor pressure
2. Donnan equilibrium
3. Absciscic Acid
4. Phytochromes
5. Secondary metabolites
6. Peptide bond
7. Isozymes
8. Cyclic electron transport
9. Nitrogenase
10. CAM pathway
11. Redox potential
12. Bioluminescence

PART B

(2 x 5=10)

Answer any **TWO** questions.

13. Write notes on ascent of sap.
14. Explain heat shock proteins.
15. Give an account of photoperiodism.
16. Explain the mechanism of action of auxins.
17. How enzymes are classified?
18. What is photorespiration? Add notes on its significance.
19. Describe Krebs cycle.
20. Give the laws of thermodynamics.

PART C

(2 x 10=20)

Answer any **TWO** questions.

21. Explain in detail the mechanism of opening and closing of stomata
22. Describe the physiological effects of gibberellins and auxins.
23. Illustrate enzyme action and enzyme regulation.
24. Write an essay on nitrogen fixation.
25. Describe the structure and hydrolysis of ATP.