

SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN
(AUTONOMOUS)

(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)
Chromepet, Chennai — 600 044.

M.Sc. - END SEMESTER EXAMINATIONS APRIL - 2022

SEMESTER - IV

20PPBCT4010 - PLANT PHYSIOLOGY AND BIOCHEMISTRY

Total Duration : 3 Hrs.

Total Marks : 60

Section A

Answer any **SIX** questions ($6 \times 5 = 30$ Marks)

1. How hormones and growth regulators affect plants growth?
2. Describe the structure and classification of carbohydrates.
3. Explain the primary structure of enzymes.
4. Distinguish between C3 and C4 plants.
5. Discuss in detail about the Kerb's cycle.
6. Explain the photoperiodism and its function.
7. Write short notes on cyclic phosphorylation.
8. Differentiate short day and long day plants.

Section B

Part A

Answer any **TWO** questions ($2 \times 10 = 20$ Marks)

9. Explain biosynthesis, translocation and physiological effect of cytokinin.
10. Describe the structure and properties of proteins.
11. Describe the classification of enzymes.
12. Explain the interaction between photosynthetic pigment and radiant energy.

Part B

Compulsory question ($1 \times 10 = 10$ Marks)

13. Write an essay on mechanism of biological nitrogen fixation.
