

**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.**

B.Sc. END SEMESTER EXAMINATIONS APRIL-2022

SEMESTER - VI

16UPBCT6012 & UPB/CT/6012- Plant Physiology, Biochemistry and Biophysics

Total Duration : 3 Hrs.

Total Marks : 60

Section A

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

1. Give an account on Photorespiration in C₂ plants.
2. List out the difference between pigment system I and II
3. Write brief notes on electron transport system.
4. Briefly explain the role of auxins and ethylene.
5. Describe the factors affecting in enzyme action.
6. Why is entropy and enthalpy important?
7. Give an account on nomenclature and classification of enzymes.
8. Write brief notes on importance of Nitrogen in plant life.

Section B

Answer any **THREE** questions ($3 \times 10 = 30$ Marks)

9. Distinguish between C₃ and C₄ plants .
10. Describe Kerbs cycle in detail and add a note on its significance.
11. Explain biosynthesis, translocation and physiological effect of cytokinin.
12. List out the salient features of coenzymes. Add a note on the classification of coenzymes.
13. Briefly explain the laws of thermodynamics.
