

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.PBPBT - END SEMESTER EXAMINATIONS - APRIL 2025

SEMESTER - VI

20UPBCT6012 - Plant Physiology, Biochemistry and Biophysics

Total Duration : 2 Hrs.30 Mins.

Total Marks : 60

Section B

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

1. Describe the structure of photosynthetic apparatus.
2. Write a note on transamination.
3. Explain the mode of enzyme action.
4. Define Bioluminescence and explain its significance.
5. Outline Krebscycle with flowchart.
6. How a biological nitrogen fixation is done by plants?
7. Outline the classification of coenzymes.
8. Describe Enthalpy and Entropy.

Section C

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

9. How Dark reaction takes place in plants?
10. Describe the steps involved in Glycolysis to yield ATP.
11. Elucidate the growth hormone - Gibberellins.
12. Explain the significance of the Michaelis-Menten constant (K_m) in enzyme kinetics.
13. Appraise the Laws of Thermodynamics.
