

Roll.No.

20UPBCT6012

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 PBPB - END SEMESTER EXAMINATIONS - NOVEMBER 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 light reaction.
2. List the characteristic features of auxin.
3. What is enzyme? Write about its mode of action.
4. List the characteristics of Bioluminescence.
5. Write a short note on Pasteur's effect.
6. Explain on transamination.
7. Discuss on the classification of carbohydrate.
8. How ATP is synthesised in mitochondria?

Section C

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

9. Elucidate the dark reaction taking place in a plant.
10. Outline the process of Glycolysis.
11. Biological nitrogen fixation plays an important role in plant's growth. Justify the statement.
12. Derive the equation of Michaelis - Menten constant.
13. Appraise on the Law of Thermodynamics.
