

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

20UPBCT6013 - Plant Biotechnology

Total Duration : 2 Hrs.30 Mins.

Total Marks : 60

Section B

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

1. List the various methods of sterilization.
2. Explain the uses of shoot culture.
3. Write the preparation of biofertilizers.
4. Explain the vaccine production using gene manipulation.
5. Illustrate the production of synthetic seeds.
6. Write the applications of embryo culture.
7. Describe the operations of fermenters.
8. Elaborate the process of alkaloid production.

Section C

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

9. Explain the inoculation and maintenance of tissue culture.
10. Analyse the production of somatic cybrids and embryos.
11. Differentiate root culture from shoot culture.
12. Distinguish batch culture and continuous culture.
13. Assess the method of genetic manipulation of eukaryotic cells.
