

**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

16UPBCT6A13 & UPB/CT/6A13 - Plant Biotechnology

Total Duration : 3 Hrs.

Total Marks : 60

Section A

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

1. Write an short notes on totipotency.
2. What is synthetic seed ? Mention its types and advantages.
3. Describe the culture of anther.
4. Write a notes on the batch culture.
5. Briefly explain the production of vaccine.
6. Describe the scope of biotechnology.
7. Write an short notes on somoclonal embryos.
8. Explain the biofertilizers and its uses.

Section B

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

9. Write an essay on MS Medium.
10. Describe briefly the protoplast fusion and its importance in improvement in plant.
11. Explain the micropropagation of shoot culture and its uses.
12. Describe in detail the production of ethanol and its applications.
13. Explain the gene manipulation of eukaryotic cell.
