

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 - 2024

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. Give an account of various sterilization methods.
2. List out the application of tissue culture.
3. Explain the process of protoplast fusion using chemical.
4. Write short notes on artificial seeds.
5. Explain the protocol of shoot tip culture.
6. Write an account on Batch culture.
7. Define the Ethanol production and its applications.
8. How is embryo culture done?

### **Section C**

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

9. Illustrate the composition and method of preparation of MS medium.
10. Describe the protoplast isolation technique and its importance.
11. Write an essay on anther culture.
12. Give an account on Fermentor designs and operations.
13. How is *Rhizobium* manufactured on a large scale?

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