

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.

M.Sc.PBPBT - END SEMESTER EXAMINATIONS - APRIL 2025

SEMESTER - IV

**20PPBCT4009 - Plant Biotechnology**

Total Duration : 2 Hrs. 30 Mins.

Total Marks : 60

### **Section B**

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

1. Interpret the working mechanism of photobioreactor.
2. Explain about biosensors.
3. Compute the flow diagram of production of citric acid.
4. Explain the production of beer.
5. Interpret the production of interferons.
6. Predict about purification of enzymes.
7. Explain about the production of Penicillin.
8. Write an account on the biosafety of GMO.

### **Section C**

I - Answer any **TWO** questions ( $2 \times 10 = 20$  Marks)

9. Describe the structure of bubble column bioreactor.
10. Predict the therapeutic applications of interferons.
11. Examine the immobilization of enzymes.
12. Evaluate the production of lactic acid with a neat diagram.

II - Compulsory question ( $1 \times 10 = 10$  Marks)

13. Explain in detail the production of wine.

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