

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 - 2024

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. List the importance of sterilization of media in fermentation.
2. Explain the scope of recombinant insulin production against Diabetes mellitus.
3. Prepare an inventory of industrial and therapeutic uses of enzymes.
4. Describe a methodology for the production of ethanol.
5. With suitable highlight a few fermented food and its role in human welfare.
6. Relate the similarities between natural and synthetic media.
7. Do recombinant interferons really solve the therapeutic issues of the present day.
8. Ascertain a simple methodology for the production of cheese.

### **Section C**

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

9. Describe in detail the structure and function of fermenter.
10. Compute the methodologies for the production of isolation and purification of enzymes.
11. Infer with examples various types of fermenter.
12. Examine the methodologies in the production of alcoholic beverages.

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

13. Justify the penicillin production is a real boon to human beings.

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