

**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 EXAMINATION APRIL/NOV - 2021**

**SEMESTER - VI**

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

<b>Total Duration : 3 Hrs</b>	<b>Total Marks : 75</b>
MCQ : 30 Mins	MCQ : 15
Descriptive : 2 Hrs.30 Mins	Descriptive : 60

Section B

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

1. Explain the scope of biotechnology.
2. Describe protoplast fusion technique.
3. Illustrate the structure and culture of anther.
4. Distinguish batch culture from continuous culture.
5. Predict the significance of Luminescent plants.
6. List out the procedure for Sterilization technique.
7. Sketch out the fermentor and label it.
8. Define protein sweetener and mention its importance.

Section C

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

9. Determine the composition of MS medium.
10. Predict the applications and methods of production of synthetic seeds.
11. Deduce in detail micropropagation.
12. Examine bacterial biofertilizer with reference to Rhizobium.
13. Classify the alkaloids and its production.