

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 2025

SEMESTER - IV

**20UPBCT4008 - Plant Ecology and Environmental Biotechnology**

Total Duration : 2 Hrs.30 Mins.

Total Marks : 60

### Section B

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

1. What are different branches of ecology? Why study of ecology is important for man?
2. Discuss the ecological effects of light on vegetation ?  
What is the significance of light to plants?
3. Write notes on adaptive features of Mesophytes.
4. What are epiphytes? Describe the various morphological features of epiphytes.
5. Give an account on grassland vegetation in India.
6. Write short notes on:  
a) Red Data Book      b) Conservation and protection of endangered plants.
7. What is biomethanogenesis? What is its role in biogas formation?
8. Explain plant biomass. How do you convert biomass into energy?

### Section C

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

9. Discuss the scope and objectives of ecology.
10. What are xerophytes? Describe the various morphological and physiological adaptations of xerophytes.
11. Describe the different phytogeographic regions in India.
12. Write brief notes on:  
a) Social forestry,      b) Sanctuaries      c) National Parks.
13. Explain the different types of sewage treatment.

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