

Roll.No.

20UPBCT4008

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 - NOVEMBER 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 is water pollution? Describe different kinds of water pollutants and their ecological effects.
2. Discuss the various factors that regulate population growth.
3. Describe about vegetative & asexual reproduction of bacteria?
4. Brief notes on Topographic factors and its advantages?
5. Describe the details on a) Endangered plants; b) Red Data Book?
6. Discuss with example the interaction between the plants and microorganisms.
7. Give a detailed account of phyto-remediation and its application in Industry?
8. Briefly explain the 3 methods of sewage treatment?

### Section C

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

9. Define 'Pollution' and 'Pollutants'. Write an essay on the problem of ecological pollution and its control methods.
10. Give an illustrated account of the conservation of plants: a) in-situ and ex-situ methods?
11. Write brief notes on a) Mesophyte b) Epiphytes
12. Write the phytogeographical divisions of India with their local vegetation.
13. What are biofuels types? Advantages and disadvantages?

\*\*\*\*\*