

Roll.No.

20PPBCT3007

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 - NOVEMBER 2025

SEMESTER - III

**20PPBCT3007 - Ecology and Phytogeography**

Total Duration : 2 Hrs. 30 Mins.

Total Marks : 60

### Section B

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

1. Explain the biotic and abiotic factors of desert ecosystem.
2. Interpret the food web in interaction of species with diagrams.
3. Relate the effects of ozone hole on environment.
4. Describe the Basics of population Ecology.
5. Rephrase on the Age and area hypothesis.
6. How are keystone species influencing the community structure?
7. Illustrate and explain the types of pyramids.
8. Examine the botanical regions of India.

### Section C

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

9. Describe the concept of Ecology and its components of ecosystem.
10. Classify the roles of biotic and abiotic factors that contribute to the nitrogen cycle.
11. Interpret the causes and consequences of green house effects. Add a note on International conventions and polices on climate.
12. Distinguish the phytogeographical regions of world with reference to the climate and adaptations of biotic factors.

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

13. Evaluate the types of positive and negative interactions in a given community.

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