

**D 122467****(Pages : 2)****Name.....****Reg. No.....****SECOND SEMESTER M.Sc. DEGREE (REGULAR/SUPPLEMENTARY)  
EXAMINATION, APRIL 2025****(CBCSS)****Botany****BOT2C06—PLANT ECOLOGY, CONSERVATION BIOLOGY, PHYTOGEOGRAPHY AND  
FOREST BOTANY****(2019 Admission onwards)****Time : Three Hours****Maximum : 30 Weightage****Part A***Answer any **four** questions.*

1. What is the significance of land bridges to biodiversity ?
2. What are the models of energy flow in ecosystem ?
3. Differentiate between species diversity and ecological diversity.
4. List out the phytogeographic region of India.
5. What is Biotic potential and carrying capacity ?
6. What is dispersal limitation ecology ?
7. What is flagship species ?

**(4 × 2 = 8 weightage)****Part B***Answer any **four** questions.*

8. Why does diversity amongst species decline as we move away from the equator ?
9. Explain major and minor forest products of Kerala.
10. What is Red Data Book ? Explain in detail red list categories.
11. Does species diversity follow any patterns ? Explain in detail ?

**Turn over**

12. What are the salient features and types of terrestrial ecosystem ?
13. Write a short note on phytochoria of world.
14. Explain biodiversity hotspots ? Where are biodiversity hotspots located ?

(4 × 3 = 12 weightage)

### Part C

*Answer any **two** questions.*

15. Explain in detail the problems and different means of threats in bio diversity conservation.
16. Explain patterns of plant distribution.
17. Describe various types of forests in the world and India.
18. What is the process of primary production ? Explain the limits and global trends in primary productivity.

(2 × 5 = 10 weightage)