

**D 140642**

(Pages : 2)

Name.....

Reg. No.....

**SECOND SEMESTER M.Sc. DEGREE (REGULAR/SUPPLEMENTARY)  
EXAMINATION, APRIL 2026**

(CBCSS)

Botany

**BOT2C06—PLANT ECOLOGY, CONSERVATION BIOLOGY, PHYTOGEOGRAPHY AND  
FOREST BOTANY**

(2019 Admission onwards)

Time : Three Hours

Maximum : 30 Weightage

**Section A (Short Answer Type Questions)***Answer any four questions.*

1. Define habitat ecology.
2. What is remote sensing ?
3. Define endangered species.
4. Define *in situ* and *ex situ* conservation.
5. What is primary productivity ?
6. Mention two types of social forestry.
7. What is the greenhouse effect ?

(4 × 2 = 8 weightage)

**Section B (Short Essay Type Questions)***Answer any four questions.*

8. Write a short note on terrestrial and aquatic habitats.
9. Describe the types of pollution and their effects on living organisms.
10. Write a short note on ozone layer depletion.
11. Describe the role of EIA in environmental protection.

**Turn over**

12. Discuss on major types of forests in India.
13. Explain the theory of continental drift in phytogeography.
14. Write a note on seed banks and gene banks.

(4 × 3 = 12 weightage)

**Section C (Long Essay Type Questions)**

*Answer any two questions.*

15. Discuss the energy flow in an ecosystem with suitable models.
16. Describe biodiversity hotspots, keystone species, and flagship species.
17. Describe how forest management contributes to conservation and sustainable development.
18. Explain the major patterns of plant distribution and the theories explaining discontinuous distribution.

(2 × 5 = 10 weightage)