

Total No. of Questions : 8]

SEAT No. :

[Total No. of Pages : 2

**P3225**

**[5032]-39**

**M.Sc. - II**

**BOTANY**

**BO - 3.37 : Plant Diversity - I (Special Paper - I)  
(2008 Pattern) (Semester - III)**

*Time : 3 Hours]*

*[Max. Marks : 80*

*Instructions to the candidates:*

- 1) Answer any five questions, taking at least two questions from each section.*
- 2) Answer to the two sections should be written in separate answer sheets.*
- 3) All questions carry equal marks.*
- 4) Neat diagrams must be drawn wherever necessary.*

**SECTION - I**

**Q1)** Describe the current magnitude of plant diversity and comment on factors affecting species distribution.

**Q2)** Comment on:

- a) Levels of biodiversity.
- b) Major episodes in the evolution of life.

**Q3)** a) Describe methods of assessing and measuring biodiversity

- b) Describe nature and origin of genetic variation.

**Q4)** Write short notes on any two:

- a) The origin of species and species concept.
- b) Techniques for monitoring plant diversity.
- c) Genetic diversity verses transgenic organisms.

**P.T.O.**

**SECTION - II**

**Q5)** Describe angiosperm diversity in detail.

**Q6)** Explain:

- a) Global distribution of species richness.
- b) Diversity in domesticated species.

**Q7)** Comment on:

- a) Tropical moist forest ecosystem.
- b) Diversity indices based on species.

**Q8)** Write short notes on any two:

- a) Origin and evolution of cultivated species diversity.
- b) Arctic and Alpine ecosystems.
- c) Fungal diversity.

**x      x      x**