

Total No. of Questions :8]

SEAT No. :

[Total No. of Pages : 2

**P1719**

**[5229]-312**

**M.Sc.- II**

**BOTANY**

**BO - 3.50 : Advanced Biodiversity  
(2013 Pattern) (New) ( Credit System) (Semester - III)**

*Time : 3 Hours]*

*[Max. Marks : 50*

*Instructions to the candidates:*

- 1) *All questions carry equal marks.*
- 2) *Attempt any five questions.*
- 3) *Draw neat labelled diagrams wherever necessary.*

**Q1)** a) Describe pteridophyte diversity w.r.t distribution and evolutionary success. **[4]**

b) Explain urban and periurban diversity. **[4]**

c) Write on measurement of genetic diversity. **[2]**

**Q2)** a) Discuss Algal diversity w.r.t habit and habitat. **[4]**

b) Give a brief account of Arctic and Alpine ecosystems. **[4]**

c) What is species richness. **[2]**

**Q3)** a) Explain Mvp and population viability analysis. **[4]**

b) Discuss Global distribution of biodiversity. **[4]**

c) Write on diversity indices based on species abundance. **[2]**

**Q4)** a) Write on Endemism and biodiversity giving examples **[4]**

b) Explain inbreeding depression. **[4]**

c) Enlist sampling techniques for monitoring fish biodiversity. **[2]**

**P.T.O.**

- Q5)** a) Discuss about the conservation of genetic and ecosystem diversity. [5]  
b) Comment on identification of diversity hot - spots. [5]
- Q6)** a) Write in detail about any two methods of ex-sites conservation of biodiversity. [5]  
b) Give an overview of the variety of life forms. [5]
- Q7)** a) Discuss the role of educational institutes in biodiversity conservation.[5]  
b) Explain IUCN threatened categories and unknown categories. [5]
- Q8)** a) Comment on factors affecting ecosystem degradation and loss. [5]  
b) Describe the role of biotechnology in assessment of biodiversity and bioresources. [5]

