

Total No. of Questions : 8]

SEAT No. :

**P3220**

**[5032]-34**

[Total No. of Pages : 2

**M.Sc. - II**

**BOTANY**

**BO - 3.32 : Mycology and Plant Pathology - 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 books.*
- 3) *All questions carry equal marks.*
- 4) *Neat diagrams must be drawn wherever necessary.*

**SECTION - I**

**Q1)** Give general characters of fungi. Write Ainsworth's system of fungal classification.

- Q2)** a) Comment on plasmodiophoromycetes.  
b) Explain sporangia to conidia evolution in Mucorales.

- Q3)** a) Describe fruit bodies in ascospore producing fungi.  
b) Write briefly on snout fungi.

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

- a) Lichens.
- b) Algal and protozoan ancestry of fungi.
- c) Flagellated fungi.

**P.T.O.**

## **SECTION - II**

**Q5)** Explain with examples ruderal and stress tolerant strategies among fungi.

**Q6)** a) How fungi are associated with higher plants and algae?

b) Comment on seed borne fungi.

**Q7)** a) Discuss genetical aspects of plant pathogenicity host resistance and virulence.

b) Explain fungal habitats.

**Q8)** Write explanatory note on any two.

a) Carbon nutrition of fungi.

b) Fungal growth.

c) Air borne fungi.

