

Total No. of Questions :8]

SEAT No :

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M.Sc.-II

BOTANY

**BO-3.32 : Mycology & Plant Pathology (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 sections.*
- 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 system of classification of fungi as per Bessey. State Its merits. **[16]**

Q2) What are Ascomycotina ? Add a note on concept of centrum in ascomycetes fungi. **[16]**

Q3) Write short answers of the following : **[16]**

- a) Briefly comment on conidiomata,
- b) Comment on conidial evolution in Mycorales.

Q4) Write short notes on any two of the follwoing : **[16]**

- a) Fruit bodies in Gasteromycetes.
- b) Rust fungi,
- c) Cellular slime molds
- d) Blastocladales

P.T.O.

SECTION-II

Q5) Discuss different aspects of heterothallism in Mycorales and Oomycetes. [16]

Q6) Describe in detail different colonization strategies among fungi. [16]

Q7) Write short answers of the following : [16]

- a) Briefly write on rhizosphere fungi,
- b) Comment on algal and protozoan ancestry of fungi.

Q8) Write short notes on any two of the following : [16]

- a) Seed borne fungi,
- b) Sex hormones in fungi,
- c) Fungal carbon nutrition,
- d) Genetical aspects of pathogenecity & resistance.

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