

Total No. of Questions : 8]

SEAT No :

[Total No. of Pages :2

**P 2164**

**[5329]-404**

**M.Sc. - II**

**BOTANY**

**BO - 4.4 : Plant Pathology**

**(2013 Pattern) (Semester-IV) (Credit System)**

*Time : 3 Hours]*

*[Max. Marks : 50*

*Instructions to the candidates:*

- 1) *Attempt any five questions.*
- 2) *All questions carry equal marks.*
- 3) *Neat labelled diagrams must be drawn wherever necessary.*

**Q1) a)** What is the effect of pathogen on respiration of the host? **[4]**

b) Give an account of effect of temperature on disease development. **[4]**

c) Write the names of two bacterial diseases with their causal organisms. **[2]**

**Q2) a)** Explain the use of biocontrol agents in controlling diseases. **[4]**

b) Comment on nematodal diseases in plants. **[4]**

c) Draw stages of development of disease cycle. **[2]**

**Q3) a)** Give an account of horizontal resistance in plants. **[4]**

b) What is the role of chemical activators of resistance in controlling plant diseases? **[4]**

c) Give the concept of physiological specialization. **[2]**

**Q4) a)** How pathogenic enzymes break the cellulose from host? **[4]**

b) Comment on symptoms of plant diseases. **[4]**

c) Define fungicides with two examples. **[2]**

**P.T.O.**

- Q5)** a) Explain the concept of plant disease epidemiology. [5]  
b) Write an account of host specific toxins with two examples. [5]
- Q6)** a) Enlist the genes and their mode of action in host-pathogen interaction.[5]  
b) Comment on the classification of diseases. [5]
- Q7)** a) Describe biotrophs with a suitable example. [5]  
b) Give an account of plant disease assessment. [5]
- Q8)** a) What are post harvest diseases of vegetables? [5]  
b) Comment on use of breeding methods to improve resistance of the plants. [5]

