

- g) Disadvantages of chemical control of diseases
 h) What are the control measures for Fusarium wilt?
 i) Symptoms of bacterial leaf blight of rice.
3. a) Describe the process of ascus formation. (6 marks)
 b) Explain the life cycle of *Allomyces arbuscula* (6 marks)
- OR**
- b) Write a note on phylum Zygomycota (6 marks)
4. a) Explain the procedure for the preparation of mother spawn and commercial Spawn. (6 marks)
 b) Write a note on vegetative forms of lichen. (6 marks)
- OR**
- b) Explain in detail reproduction in lichen. (6 marks)
5. a) Outline the lifecycle of *Puccinia graminis*. Describe the control measures for the rust of wheat. (6 marks)
 b) Describe the life cycle of *Magnaportha grisea* and write a note on management of rice blast disease. (6 marks)
- OR**
- b) Describe hypersensitive response (HR). What are the physiological and molecular changes during HR in plants? (6 Marks)
6. a) Describe the properties and uses of Sulphur based antifungal substances (6 Marks)
 b) Outline Salicylic acid mediated defense mechanism in plants. (6 Marks)
- OR**
- b) Write on i) Bacterial wilt of Banana ii) PR proteins (6 Marks)

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