

## **AF-3531**

M.Sc. (Final) Term End Examination, 2017-18

## **BOTANY**

Paper - IV (A)

## Plant Pathology

Time: Three Hours] [Maximum Marks: 100 [Minimum Pass Marks: 36]

Note: Answer any five questions. All questions carry equal marks. Draw diagrams wherever necessary.

- 1. Write an essay on pathogenic and non-pathogenic disease symptoms of plants.
- **2.** Write about the mechanism of infection and discuss the role of enzymes and toxins in pathogenesis.
- **3.** Write short notes on the following:
  - (a) Post infectional defence in plants
  - (b) Disease syndrome

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(Turn Over)

- **4.** How the incidence of plant disease can be predicted? Support your answer with suitable strategies.
- 5. Make a list of seed born diseases of plants and explain disease cycle of any one of them.
- **6.** Write short notes on the following:
  - (a) Predisposition factors
  - (b) Significance of Phyllosphere and Rhizosphere
- 7. Describe the principles of plant disease control and discuss chemical methods in detail.
- **8.** Give a detailed account of breeding methods of plants with reference to production of disease resistant varieties.
- **9.** Calculate the loss generated by any fungal disease in plants and recommend the control measures for it.
- **10.** Give a detailed account of disease cycle of the following diseases in plants:
  - (a) Rust of wheat
  - (b) Citrus canker