



KERALA AGRICULTURAL UNIVERSITY

B.Sc. (Hons.) Ag. 2016 Admission

III Semester Final Examination-February-2018

Path.2102

Principles of Integrated Plant Disease Management (1+1)

Marks: 50

Time: 2 hours

(10x1=10)

I Fill in the Blanks

- 1 Study of outbreak and spread of a disease in a population is called
- 2discovered Bordeaux mixture
- 3is a legislative measure of plant disease control
- 4is a physical method of management of soil borne diseases
- 5 is a commonly used seed protectant fungicide belong to dithiocarbamates
- 6 The phenomenon in which the plant tissues infected with one strain of virus are protected from more severe strain of the same virus is called
- 7 is a type of resistance which is effective against a particular race of a pathogen and not effective against other races.
- 8is a fungal biocontrol agent effective against Phytophthora and Rhizoctonia.
- 9 Propiconazole is a systemic fungicide belongs to group
- 10 Variability in clones generated from a single mother plant by tissue culture is called.....

II Write Short notes on any FIVE of the following

(5x2=10)

- 1 PGPR
- 2 Hyper sensitive reaction
- 3 Classification of Copper fungicides
- 4 Formulations of fungicides
- 5 Systemic Acquired Resistance
- 6 Disease forecasting
- 7 Plant quarantine

III Answer any FIVE of the following.

(5x4=20)

- 1 Describe cultural methods of disease management
- 2 Which are the characteristics of an ideal fungicide?
- 3 What is true resistance in plants? Explain two types of true resistance
- 4 Describe different physical methods of eradication of disease
- 5 What are the important mechanisms of action involved in biological control
- 6 Biotechnological approaches for disease management
- 7 Briefly explain post infection biochemical defense mechanisms

IV Write an essay on any ONE of the following

(1x10=10)

- 1 Describe the role of host, pathogen and environment on development of epidemic
- 2 Explain the principles of plant disease control
