

KERALA AGRICULTURAL UNIVERSITY
B.Sc (Hons.) Agriculture – 2010 Admission IIIrd Semester
Final Examination – January / February 2012

Title : Path. 2102

Marks : 80

Course : Principles of crop disease management (1+1)

Time : 3 Hours

I. Define / Fill up the blanks

(10 x 1 = 10)

Define:

1. Fungistatic
2. Protectants
3. Embargo
4. Sporadic disease
5. Callus

6. Deep ploughing reducesdiseases
7. Meristem tip culture is used for eradicating.....disease in cassava
8. Comparison between climatological model and real weather situations using..... weather maps.
9.is known as "Kittleson" killer
10. is a certificate of health, which accompanies plants or plant products to be exported or imported

II. Write short notes/answers on ANY TEN

(10 x 3 = 30)

1. What is Soil solarisation
2. What is Antisporulant? Give example
3. What is Therapeutant
4. Classify fungicides based on mode of action
5. Classify Organo tin compounds and diseases controlled by them
6. Tissue culture
7. Post harvest treatment-application of fungicides
8. Disease forecasting
9. IDM for soil borne pathogens
10. Name two internally and externally seed borne bacterial diseases of cereals
11. Plant Quarantine
12. Klenducity and Totipotency

III. Write short essay on ANY SIX of the following

(6 x 5 = 30)

1. Characteristics of an ideal fungicide
2. Differences between vertical and horizontal resistance
3. Mode of action of Sulphur fungicide
4. Quarantine rules and regulations
5. Advantages of biocontrol agents
6. Disease assessment
7. Plant disease management with respect to cultural methods
8. Application of biotechnology in plant disease management

IV. Write an essay on ANY ONE

(1 x 10 = 10)

1. Explain about the principles of crop disease management
2. Role and mechanisms of biocontrol agents.