

KERALA AGRICULTURAL UNIVERSITY

B.Sc Hons (Ag) 2011 Admission

IIIrd Semester Final Examination- January /February -2013

Cat. No: Path.2102

Title: Principles of Crop Disease Management (1+1)

Marks: 80

Time: 3 hours

I. Fill up the blanks (10 X 1 = 10)

1. Bordeaux mixture was in invented by _____ .
2. _____ is one of the specific fungicide for the control of rice blast.
3. Crop rotation is recommended for _____ diseases.
4. Solar treatment for the management of loose smut of wheat was given by _____ .
5. The complete/ total restriction of movement of plant materials from one place to another place is called _____ .
6. The expanded form of PGPR is _____ .
7. _____ is an example for a fungal antagonist.
8. _____ is an example for organic amendments.
9. Removal of disease infected plants from a field is known as _____ .
10. Meristem tip culture is useful to eliminate _____ pathogen.

II. Write short notes on any TEN (10 X 3 = 30)

1. How remote sensing is useful for crop disease management.
2. Write the characteristics of an ideal biocontrol agent.
3. What is the mode of action of sulphur fungicide?
4. What is disease triangle?
5. Write about history / landmarks in fungicide development.
6. What are the general principles of plant disease control?
7. How is crop rotation useful in managing crop diseases?
8. Write the favorable conditions for *Pythium spp.* in causing damping off disease.
9. Write about physical method of disease control.
10. Write the mode of action of systemic fungicides.
11. Write the characteristics of an ideal fungicide.
12. Write about fungicide formulations.

III. Write short essays on any SIX (6 X 5 = 30)

1. Write the mode of action of biological control agents.

2. How will you prepare Bordeaux mixture? Write the precautions to be taken while preparing it.
3. Write about plant quarantine.
4. Differentiate horizontal and vertical resistance.
5. Write the role of biotechnological methods in disease management.
6. Write the mode of action of antibiotics?
7. Write in detail about the agronomic practices in disease management.
8. Write about the delivery system of biocontrol agents.

IV. Write essay on any ONE

(1 X 10 = 10)

1. Write in detail about the integrated disease management of soil borne diseases.
2. What is fungicide? Explain the various methods of application of fungicides.