

KERALA AGRICULTURAL UNIVERSITY
B.Sc. (Ag) 2006 Admission Vth Semester
Final Examination, March 2009

Path 3104
Disease of Field Crops (1+1)

Max. Marks: 60
Time: 2 hours

I. Objective type questions:

(20 x .5= 10)

A. Fill up the blanks

1. Spindle shaped or eye shaped spots are the characteristic symptom of -----
----- disease in rice.
2. Kresek is the symptom caused by -----
3. Ring rot is the disease occurring in ----- crop.
4. Sett rot disease in sugarcane otherwise called as ----- disease.
5. Sesamum phyllody caused by -----

B. Give the name of

6. Rice blast caused by -----
7. RTV is transmitted by -----
8. Bhendi vein clearing virus transmitted by -----
9. The nematode causing Tundu disease of wheat -----
10. Perfect stage of *Colletotrichum* sp -----

C. True or False

11. Mancozeb is an effective fungicide for the control of early blight of potato
12. borduex mixture was invented by Tulasane brothers.
13. *Fusarium* produces chlamydospores
14. Black tip of mango is caused by *Colletotrichum mangiferae*
15. Khaira disease of paddy is due to zinc deficiency

D. Choose the correct answer

16. The presence of foul smell (stinking smell) in hill bunt or karnal bunt infected fields is due to the production of
a) Formaline b) Trimethylamine c) Phenylalanine d) Lysine
17. Stripe rust of wheat is also known as
a) Brown rust b) Black rust c) Yellow rust d) Stem rust
18. Which one of the following is an alternate host required by *Puccinia graminis tritici* to complete its life cycle
a) ~~Berberis~~ b) *Hordeum vulgare* c) Chaenopodium d) *Glycine max*
19. *Fusarium* wilt of banana is also known as
a) Bunchy top b) Panama disease c) Both a and b d) None of these

20. Black tip or mango necrosis is caused by

- a) *Glomerella cingulata*
- b) Zinc deficiency
- c) Smoke and sulphur dioxide emitted from the brick kilns

II. Questions for short answers (6 x 2 = 12)

1. Difference between root rot and wilt
2. Rotten neck of rice – Substantiate
3. Black arm of cotton – give reasons
4. Write about pine apple disease of sugarcane
5. Differentiate sheath blight and sheath rot
6. Tomato spotted wilt virus symptom on fruits

(6 x 3 = 18)

III. Questions for short notes (Any Six)

1. Describe the symptoms, mode of spread and survival and management of Loose smut of wheat
2. Die back disease of chillies – Explain.
3. Sesame Phyllody – Explain
4. Name one important disease of each of the following crops with causal organism, perpetuation and disease management
 - a) Wheat
 - b) potato
5. Set rot of sugarcane – explain.
6. Aflatoxin of groundnut – explain
7. Describe the mode of survival and spread of green ear ofumbu
8. Peas powdery mildew – describe

IV. Short essays (Any four) (4 x 5 = 20)

1. Important diseases of cruciferous ^{crops} and their management
2. Write in detail about etiology and symptoms of cassava and potato diseases and their management
3. Important fungal and viral diseases of rice and their management
4. List out the important disease of oilseed crops and describe the sesamum phyllody and groundnut leaf spot and rust diseases
5. Important diseases of cotton and their management