

KERALA AGRICULTURAL UNIVERSITY
B.Sc. (Ag) 2004 Admission IV Semester Final Examination,
December 2006

2006-09

Path 2203
Principles of crop disease and management (1+1)

Max. Marks: 60
Time: 2 hours

I.A. Fill up the blanks

20x0.5=10.00

- 1.----- is the first director of Imperial mycological Institute(Now IMI)
2. Dispersing agents are also referred as-----
- 3.The composition for Bordeaux mixture developed during the year-----
- 4.Captan is also referred as-----
- 5.Bunchy top of banana was introduced to India from-----

I.B. State True or False

- 6.Avirulent strain of a virus will offer protection against all types of viruses.
- 7.Serum that contains antibodies are referred as antigen
- 8.Citrus Tristeza virus is transmitted by Thrips
- 9.Somoclonal variation refers to the Embryo derived variation
- 10.The study of relation between antigen and an antibody is called antibiosis

I.C Name the following

- 11.A organophosphorous fungicide
- 12.A disease, which can be controlled by hot air treatment
- 13.Mixing of chemical with irrigation water
- 14.A group of fungicide which are effective only against the fungi belonging to Basidiomycotina and *Rhizoctonia solani*
- 15.A study of outbreak and spread of diseases in a population

ID.Choose the correct answer

- 16.Anthrachnose of Banana is caused by
- a.*Botrydiploia theobromae*
 - b.*Colletotrichum musae*
 - c.*Rhizopus arrhizus*
 - d.*Fusarium equiseti*
- 17.The first quarantine act was enforced in
- a.India
 - b.USA

Director of Academic matter
College of Horticulture
Vellanikkara - 680 654

c. France

d. England

18. The first systemic fungicide discovered in 1966

a. Morpholines

b. Oxathiins

c. Benzimidazoles

d. Acalalanines

19. A disease, which can be controlled by crop rotation

a. Rice Blast

b. Banana Fusarial wilt

c. Coconut Kerala wilt

d. Tea blister blight

20. Gene for Gene theory was proposed by

a. Biffen

b. Alex Millardet

c. Flor

d. None of the above

II Write the answer in one or two sentences

6x1=6.00

21. What is pre-immunization?

22. Comment on capsule application

23. Give two reasons for the mechanism underlying the resistance of meritem to viruses.

24. Blue mould of apple

25. Phytosanitary certificate

26. Horizontal resistance

III Differentiate the following (Answer any six questions only)

(6 x 2 = 12)

27. Embargo-Domestic quarantine

28. Slide agglutination test-Tube precipitin test

29. *Trichoderma viride*-*Pseudomonas fluorescens*

30. Fungicide-Fungistat

31. Symplast-Apoplast

32. Chemodiagnosis-Serodiagnosis

33. Protectant-Eradicant

34. Alternate host-Alternative host

IV. Answer any four questions

4x3=12.00

35. Discuss about Cross-protection
36. Comment on wettable powders
37. Classify fungicide based on mode of use
38. Explain about Blotter test
39. Name any four systemic fungicides and give one example of a disease controlled by them

V. Answer any four questions

4x5=20.00

40. Discuss about the role of biotechnological approaches in plant disease management
 41. What are all the various precautionary measures to be followed during handling of fungicides?
 42. Write in detail about the formulation of fungicides with examples.
 43. Classify contact fungicides based on chemical nature and discuss about Copper fungicides.
 44. Discuss about the role of botanicals in plant disease management with suitable examples
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