

2005-52

KERALA AGRICULTURAL UNIVERSITY  
B.Sc. (Ag) 2005 Admission II Semester Final Examination,  
October 2006

Path 1202  
Introductory Plant Pathology (1+1)

Max. Marks: 60  
Time: 2 hours

- I. a) Fill up the blanks (20 x .5 = 10)
1. Motile spores are known as -----.
  2. The fungal cell wall is invariably surrounded by -----.
  3. Phyllody is caused by -----.
  4. The host on which heterocious rust producing the pycnial aecial stage is called ---  
-----.
  5. *Albugo* belongs to the order -----.
- b) State True or False
6. *Pythium* belongs to the class *Chytridiomycetes*
  7. TMV was first crystallized by Stanley.
  8. Mollicutes are sensitive to tetracycline.
  9. *Cuscuta* is a partial root parasite
  10. *Phytophthora* produces Amphigynous antheridium
- c) Name the following
11. Virioid infecting citrus.
  12. Pathogen responsible for Irish famine.
  13. Fruiting body of genus *Phoma*.
  14. Female gametangium of oomycetes.
  15. Causal organism of citrus canker.
- d) Choose the correct answer
16. Grown gall diseases of rose is caused by -----  
(*Agrobacterium tumefaciens*, *Erwinia Amylovora*, *Clavibacter* sp.)
  17. The method of sexual reproduction in oomycete is -----  
(Spermatization, Gametangial contact, Planogametic copulation)
  18. Mycelium of *Leveillula* is ----- (Endophytic, Ectophytic, Ecto-Endophytic)
  19. Club root of cabbage is caused by ----- (*Plasmodiophora brassicae*, *Plasmodium viticola*, *Pythium vexans*)
  20. Perithecium is produced by (*Colletotrichum*, *Venturia*, *Botryodiplodia*)
- II. Write the answers in one or two sentences (6 x 1 = 6)
21. Define Virioid
  22. Rhizomorph.
  23. Physiologic specialization.
  24. Cleistothecium.
  25. Plasmodium.
  26. Macrocytic rust.

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III. Differentiate between the following (any six) (6 x 2 = 12)

27. Pycnidium x Acervulus.
28. Circulative virus x Propagative virus.
29. Pycnium x Aecium.
30. White rust x Red rust.
31. Holocarpic x Eucarpic
32. Paragynous antheridium x Amphigynous antheridium.
33. Homothalium x Heterothalium.
34. Sclerotia x Chlamydo-spore.

IV. Answer any FOUR questions only (4 x 3 = 12)

35. Write the general characters of order Erysiphales.
36. Mention different types of disease symptoms produced by bacterial pathogens.
37. Draw the diagram of Perithecium and label it.
38. Write the important differences between uredinals and ustilaginals.
39. Give the taxonomic position of *Phytophthora infestans*
40. Describe the symptoms of phyllody and witches broom.

V. Answer any FOUR questions only (4 x 5 = 20)

41. List out the important characters of Ascomycotina upto order level.
42. Explain different methods of sexual reproduction in fungi with suitable examples.
43. Describe the different types of plant virus-vector relationship with suitable example.
44. Write briefly on a) Cuscuta, b) Antagonism c) Inoculum d) Haustorium e) Biotroph.
45. Describe in detail the life cycle of Puccinia graminis tritici with neat diagram.

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