

KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Ag Degree Programme-2012 Admission

VIth Semester One -Time Special Re-Examination –April/May 2016

Cat. No: Path.3204

Marks: 80

Title: Diseases of Horticultural Crops and their management(2+1)

Time : 3 hours

I. Choose the correct answer

(5x1=5)

1. *Oidium mangiferae* is

- a) Ectophytic
- b) Endophytic
- c) Ectoendophytic
- d) None of the above

2. Leaf spot and fruit anthracnose of pomegranate is caused by

- a) *Cercospora punicae*
- b) *Fusarium fusarides*
- c) *Colletotrichum gloeosporioides*
- d) *Alternaria* sp

3. Stem bleeding disease of coconut is managed by

- a) Mancozeb
- b) Vitavax
- c) Calixin
- d) Bordeaux mixture

4. The Chemical which recommended for healing wound of trees in hilly area is

- a) Bordeaux mixture
- b) Bordeaux paste
- c) Burgandy mixture
- d) Chowbattia paste

5. Disease associated with fungi and insect

- a) Black mildew
- b) Powdery mildew
- c) Downy mildew
- d) Sooty mould

II. Match the following

(5x1=5)

- 1. Cadang cadang
 - 2. Citrus tristeza virus
 - 3. Leaf curl of papaya
 - 4. Fire blight of apple
 - 5. Chilli powdery mildew
- a. E.F Smith
 - b. *Leveillula taurica*
 - c. *Toxoptera citricidus*
 - d. Viriod disease of coconut
 - e. *Bemisia tabaci*

III. Short notes (ANY TEN)

(10x3=30)

- 1. List out the post harvest diseases in banana
- 2. Differentiate Powdery mildew and Downy mildew

3. Write the symptoms, etiology of guava fruit canker
4. Discuss the importance of mango stem end rot
5. Write the symptoms and integrated management of apple scab
6. Write the symptoms and integrated management of cinnamon leaf spot and die back
7. Cross protection
8. Write the causal organism and symptoms of rose rust
9. Phanerogamic parasite in mango and its management
10. Write the causal organism and integrated management of slow decline in clove
11. Mention the symptoms and a management practice for stem bleeding in coconut
12. List out the types of rubber root disease

IV: Write short essay (ANY SIX)

(6x5=30)

1. Write about katte disease of cardamom
2. Describe the different symptoms of bacterial canker of citrus and suggest its management
3. Explain in detail about the foliar diseases of coffee
4. Write the properties of phytoplasma and list five important phytoplasma diseases with their vectors
5. Write the economic importance, symptoms, and management of Mahali disease
6. Explain about the causal organism, symptoms and integrated management of foot rot and slow wilt in pepper
7. Differentiate fruit rot and bud rot
8. Tip over disease of banana

V. Essay (any one)

(10x1=10)

1. Differentiate between Tanjore wilt and Kerala wilt. Explain about basal stem end rot disease in coconut.
2. Write in detail about coffee rust with disease cycle