

# KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Ag. 2011 Admission

VI<sup>th</sup> Semester Final Examination- July /August -2014

Cat. No: Path.3204

Marks: 80

Title: Diseases of Horticultural Crops & their Management (2+1)

Time: 3 hours

I. Fill up the blanks (Answer all questions)

Marks : 10 x 1= 10

1. Black sigatoka disease of banana is caused by the fungus \_\_\_\_\_
2. \_\_\_\_\_ is a suitable selective fungicide for the management of grapevine downy mildew disease.
3. Citrus Tristeza virus is transmitted by the vector \_\_\_\_\_
4. Charcoal pod rot of cocoa is caused by \_\_\_\_\_
5. \_\_\_\_\_ is a suitable fungicide for the management by blister blight of tea.
6. \_\_\_\_\_ is a vector for katte disease of cardamom.
7. Soil drenching with \_\_\_\_\_ is very effective for the management of rhizome rot of ginger caused of *Pythium*
8. Rose powdery mildew is managed by foliar spraying with fungicide \_\_\_\_\_
9. Immature fruit rot of Jack is caused of the fungus \_\_\_\_\_
10. \_\_\_\_\_ is recommended for the management of mango sooty mould disease

**II. Write short Notes (Any Ten)**

**Marks : 10 x 3 = 3**

1. Tip over / *Erwinia* head rot disease of banana
2. Selective fungicides for the management of powdery mildew disease of horticultural crops.
3. Cadang – Cadang disease of coconut
4. Mahali disease of Arecanut
5. Swollen shoot of cocoa
6. Pollu disease of black pepper
7. Collar and stem rot of Jasmine
8. Phanerogamic parasites of fruit crops
9. Heart rot of pineapple
10. Mango malformation
11. Moko disease of Banana
12. Die back disease of cinnamon

**III. Write short essays (Brief Answer – Any six)**

**Marks : 6x5=30**

1. Important viral diseases of banana and their management.
2. Integrated management of basal stem rot of coconut caused by *Ganoderma lucidum*
3. Cross protection technique for the management quick decline disease of citrus.
4. Symptoms, etiology and integrated management of root wilt disease of coconut.
5. Symptoms, etiology and integrated management of quick wilt disease of pepper.
6. Symptoms, etiology and integrated management of bud rot of oil palm
7. Life cycles and integrated management of downy mildew and powdery mildew diseases of grapevine.
8. Symptom, disease cycles and integrated management of foot rot of papaya caused by *pythium sp*

**IV. Write essay (Any One)**

**1 x 10 = 10**

1. Describe various types of fungal and bacterial wilt diseases of banana. Write briefly the symptoms, sources of infection and integrated disease management.
2. List out important diseases of cardamom with casual organisms. Write briefly the symptoms, life cycle and integrated disease management of clump rot disease.