

**KERALA AGRICULTURAL UNIVERSITY**  
**B.Sc. (Hons.) Agriculture – 2007 Admission - VI<sup>th</sup> Semester**  
**Final Examination - June-July 2010**

Cat. No. : Path 3204

Max. marks: 80

Title : Diseases of Horticultural crops and  
their Management (2+1)

Time : 3 hours

**I. a. Fill up the blanks:**

(5 x 1 = 5)

1. Bunch top virus is transmitted by \_\_\_\_\_ in \_\_\_\_\_ (persistent/non-persistent manner).
2. Leaf blotch of cardamom is caused by \_\_\_\_\_.
3. Vascular streak dieback (VSD) of cocoa is caused by \_\_\_\_\_.
4. Swollen shoot of cocoa is caused by \_\_\_\_\_ and transmitted by \_\_\_\_\_.
5. \_\_\_\_\_ causes foot rot or anabe-roga of arecanut.

**I. b. State True or False:**

(5 x 1 = 5)

1. Abnormal leaf fall of rubber is so called because it appears during abnormally high temperature.
2. Grape vine develops phytotoxic symptoms when sprayed with Bordeaux mixture.
3. Application of sulphur fungicides controls powdery mildew of roses.
4. Insect pollu and pollu disease of black pepper is a single disease caused by an insect fungal complex.
5. Presence of insects increases the inflorescence blight of cashew.

**II. Write short notes on ANY TEN of the following:**

(10 x 3 = 30)

1. Azhukal disease of cardamom.
2. Chenthal disease of cardamom.
3. Black spot of rose
4. Red rust of black pepper
5. Leaf rot of coconut
6. Blister blight of tea
7. Bacterial leaf spot of betel vine
8. Slow decline of clove
9. Heart rot of pineapple
10. Stem gall of coriander
11. Management of downy mildew of grape vine
12. Anthracnose of mango

**III. Write short essays on ANY SIX of the following:**

(6 x 5 = 30)

1. Katte disease of cardamom.
2. Leaf blotch of turmeric
3. Rhizome rot of ginger
4. Compare *panama* wilt and *Moko* wilt of banana
5. Citrus *Tristeza*
6. Symptoms, cause, disease spread and management of Pink disease of rubber
7. Biological control of quick wilt of black pepper
8. *Mahali* disease of arecanut.

**IV. Write essay on ANY ONE:**

(1 x 10 = 10)

1. Symptoms, etiology, transmission and management of coconut root (wilt) disease.
2. Management of black pepper diseases for organic pepper production.