

C 61863

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Name.....

Reg. No.....

FOURTH SEMESTER M.Sc. DEGREE EXAMINATION, JUNE 2019

(CUCSS—PG)

Botany

BO 04 ET 13 6—PATHOLOGY OF PLANTATION CROPS AND SPICES

(2010 Admissions)

Time : Three Hours

Maximum : 36 Weightage

I. Answer *all* questions. Each question carries 1 weightage :

- 1 How can you control anthracnose of Pepper ?
- 2 Describe the chemical nature of Bavistin.
- 3 Distinguish between a rot and a wilt.
- 4 How can plant disease be managed by field sanitation ?
- 5 How do viruses gain entry into host plants ?
- 6 What is the significance of *Pseudomonas* sp. in crop pathology ?
- 7 Mention the source and properties of Pyrethrin.
- 8 What are the measures taken to control soft rot of Ginger ?
- 9 What are collateral hosts? Cite an example.
- 10 Discuss disease triangle.
- 11 Write a note on the etiology of pod rot of Cocoa.
- 12 Mention two viral pathogens and diseases caused by them.
- 13 Name two pests on Coconut palms.
- 14 What are systemic fungicides ? Give an example.

(14 × 1 = 14 weightage)

II. Answer any *seven* questions. Each question carries 2 weightage :

- 15 Discuss the role of nematodes as pests and pathogens with examples.
- 16 Give an account on integrated pest management.
- 17 Describe the causative organism and disease control measures to be adopted for nut fall of Arecanut.

Turn over

- 18 Describe the mode of application and action of bactericides.
- 19 Enlist various types of microbial pathogens and their symptoms.
- 20 Write notes on the etiology, symptoms and control measures of abnormal leaf fall of rubber.
- 21 Discuss the use of copper compounds in disease management.
- 22 Give an account on the use of bacteria as biocontrol agents with examples.
- 23 How can plant diseases be controlled by crop rotation ?
- 24 Describe the etiology and control measures of rhizome rot of cardamom.

(7 × 2 = 14 weightage)

III. Answer any *two* questions. Each question carries 4 weightage :

- 25 Discuss in detail the botanical alternatives used in plant protection. Add a note on its merits and demerits.
- 26 Give a detailed account on the etiology, symptoms and control measures of diseases affecting pepper plantations.
- 27 Elaborate the use of antibiotics in agriculture, mode of action, method of application and its impact on human health.
- 28 What are pesticides ? With examples, explain their chemistry, mode of action and method of application of pesticides.

(2 × 4 = 8 weightage)