

Total No. of Questions: 6

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Enrollment No.....



Faculty of Agriculture
End Sem Examination Dec-2023
AG3CO37 Diseases of Field & Horticultural Crops &
their Management -I

Programme: B.Sc. (Hons.) Branch/Specialisation: Agriculture

Duration: 3 Hrs.

Maximum Marks: 50

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d. Assume suitable data if necessary. Notations and symbols have their usual meaning.

- Q.1 i. Tikka disease of groundnut is caused by- **1**
(a) Colletotrichum (b) Cercospora
(c) Verticillium (d) Fusarium
- ii. Khaira disease in paddy/rice crop is caused due to- **1**
(a) Deficiency of Cu (b) Toxicity of Mg
(c) Deficiency of Zn (d) Toxicity of Fe
- iii. Digitaria marginata is a Collateral host for the _____. **1**
(a) *Cercospora oryzae* (b) *Pyricularia oryzae*
(c) *Sarocladium oryzae* (d) *Helminthosporium oryzae*
- iv. _____ disease is responsible for The Bengal famine of 1942-43. **1**
(a) Blast disease (b) Brown spot of paddy
(c) Sheath blight (d) Bacterial leaf blight
- v. Which of the given diseases is caused by nematodes in plants? **1**
(a) Wilts (b) Cavity spot
(c) Scab (d) Root-knot
- vi. Which of the following is not a soil borne disease? **1**
(a) Panama disease (b) Moko disease
(c) Fusarium Wilt of tomato (d) Leaf curl of Papaya
- vii. Panama disease of Banana is a _____. **1**
(a) Soil borne disease (b) Air borne disease
(c) Seed borne disease (d) None of these

[2]

- viii. Green year is the disease related to- **1**
 (a) Paddy (b) Bajra (c) Wheat (d) Sugarcane
- ix. Fruit cracking disease in tomatoes is mainly caused due to the deficiency of- **1**
 (a) Copper (b) Zinc (c) Boron (d) Molybdenum
- x. A symptom of early blight of tomato is _____. **1**
 (a) Concentric rings (b) Small faded green patches
 (c) Invaded tissues (d) Curling of leaves
- Q.2 i. Write the causal organism of brown spot and sheath blight disease of paddy. **1**
 ii. Write the causal organism and symptoms of tikka disease of groundnut. **2**
 iii. Interpret two fungal diseases of rice with their causal organism, symptoms and management. **5**
- OR iv. Illustrate the causal organism, symptoms, favourable condition and management of late leaf spots and wilt disease of groundnut. **5**
- Q.3 i. Write the causal organism of blast and leaf spot disease of finger millet. **1**
 ii. Write any three names of disease of pigeon pea and there causal organism. **3**
 iii. Illustrate the causal organism, symptoms, and management of anthracnose of black & green gram. **4**
- OR iv. Briefly describe the yellow mosaic disease of soybean on the following heads: **4**
 (a) Pathogen
 (b) Symptoms
 (c) Disease cycle
 (d) Management
- Q.4 i. Describe in detail about management strategies for Leaf Curl disease of Papaya. **2**
 ii. Describe the disease caused by *Fusarium oxysporum f.sp. cubense* including its symptoms, mode of spread, survival, favourable conditions and management measures. **6**

[3]

- OR iii. Write the causal organism of given diseases- **6**
 (a) YVM of Okra
 (b) Wilt of Guava
 (c) Leaf curl of Papaya
 (d) Late blight of Tomato
 (e) Sigatoka disease of Banana
 (f) Bacterial blight of Pomegranate
- Q.5 i. Write the causal organism/pathogen of the following diseases – **2**
 (a) Okra: Yellow Vein Mosaic
 (b) Bean: bacterial blight
- ii. Write the causal organism and symptoms of any two banana diseases. **2**
- iii. Describe the causal organism, symptoms, disease cycle and management of two cruciferous vegetables diseases. **4**
- OR iv. Write the difference between Early and Late blight of Tomato. **4**
- Q.6 Attempt any two:
- i. Describe the causal organism, symptoms, favourable condition, disease cycle and management of any one tea disease and any one coffee disease. **4**
- ii. Write short note on: **4**
 (a) Soft rot of Ginger (b) Bud rot of Coconut
- iii. Briefly describe the any one disease of coconut on the following heads- **4**
 (a) Causal organism (b) Symptoms
 (c) Disease cycle (d) Management
