

Enrollment No.....



Faculty of Agriculture
End Sem Examination May-2024
AG3CO45

Disease of Field & Horticultural Crops & Their
Management -II

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. Puccinia recondita is the causal organism of _____. **1**
 (a) Leaf rust of wheat (b) Orange rust of wheat
 (c) Brown Rust of wheat (d) All of these
- ii. Red rot of sugarcane is caused by _____. **1**
 (a) Fusarium oxysporum (b) Botrytis cinerea
 (c) Ascochyta rabiei (d) Colletotrichum fulactum
- iii. Alternaria leaf sopt of sunflower is caused by? **1**
 (a) Sclerotinia sclerotiorum
 (b) Albugo candida
 (c) Peronospora parasitica
 (d) Alternaria helianthi
- iv. Which of the following are fungicide used for seed treatment? **1**
 (a) Vitavax (b) Thiram
 (c) Plantvax (d) All of these
- v. NAA @200 PPM is effective against? **1**
 (a) Mango malformation (b) Citrus canker
 (c) Pea rust (d) Anthracnose
- vi. Xanthomonas axonopodis is the causal organism of which disease? **1**
 (a) Mango malformation (b) Citrus canker
 (c) Pea rust (d) Grapevine mildew

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- vii. Concentric ring is typical symptoms of which disease? **1**
 (a) Late blight of potato
 (b) Early blight of potato
 (c) Vascular wilt
 (d) Black scurf
- viii. Purple blotch is caused by _____. **1**
 (a) Stemphylium vesicarium (b) Albugo candida
 (c) Alternaria porri (d) Colletotrichum capsici
- ix. Which of the following is vector for chilli leaf curl virus? **1**
 (a) White fly (b) Chilli mosaic
 (c) BPH (d) All of these
- x. Crop rotation is including in which tools of IDM? **1**
 (a) Chemical (b) Biological
 (c) Cultural (d) None of these
- Q.2 i. Define pathology. **1**
 ii. Differentiate between disease and pest. **2**
 iii. Write down any two diseases of sugarcane with causal organism, favourable condition, symptoms and its management. **5**
- OR iv. Discuss the stem rust and brown rust of wheat with causal organism, favourable condition, symptoms and its management. **5**
- Q.3 i. Define etiology. **1**
 ii. How to manage bacterial pathogen with fungicides? **3**
 iii. Explain two diseases of mustard with proper management. **4**
- OR iv. Enlist any four diseases of gram with causal organism. **4**
- Q.4 i. Differentiate between symptom and sign. **2**
 ii. Write down any three diseases of mango with causal organism, symptoms and its management. **6**
- OR iii. Write down any three diseases of citrus with causal organism, symptoms and its management. **6**
- Q.5 i. Enlist causal organism of downy mildew and powdery mildew of cucurbits. **2**
 ii. How to manage black scurf of potato through IDM? **2**
 iii. Differentiate between Late blight and Early blight disease of potato with symptoms and its management. **4**

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- OR iv. Describe the two major diseases of garlic with causal organism, symptoms and its management. **4**
- Q.6 Attempt any two:
- i. Write down the condition of disease triangle for disease development. **4**
- ii. Enlist four names of fungicides with trade name, technical name and target pest. **4**
- iii. Briefly explain any two diseases of coriander or chilli. **4**

Marking Scheme

Diseases of Field & Horticultural Crops & Their Management -II (T) - AG3CO45 (T)

Q.1	i)	<i>Puccinia recondita</i> is the causal organism of ____.	1
		(d) All of these	
	ii)	Red rot of sugarcane is caused by ____.	1
		(d) <i>Colletotrichum fulactum</i>	
	iii)	Alternaria leaf spot of sunflower is caused by?	1
		(d) <i>Alternaria helianthi</i>	
	iv)	Which of the following are seed treatment fungicides?	1
		(d) All of these	
	v)	NAA @200 PPM is effective against?	1
		(a) Mango malformation	
	vi)	<i>Xanthomonas axonopodis</i> is the causal organism of which disease?	1
		(b) Citrus canker	
	vii)	Concentric ring is typical symptoms of which disease?	1
		(b) Early blight of potato	
	viii)	Purple blotch is caused by ____.	1
		(c) <i>Alternaria porri</i>	
	ix)	Which of the following vector of chilli leaf curl virus?	1
		(a) White fly	
	x)	Crop rotation is including in which tools of IDM?	1
		(c) Cultural	
Q.2	i.	Define Pathology.	1
	ii.	Differentiate between Disease and Pest.	2
	iii.	Write down any two disease of sugarcane with causal organism, favourable condition, symptoms and management.	5
		(One disease carry 2.5 marks)	
OR	iv.	Discuss the stem rust and brown rust of wheat with causal organism, favourable condition, symptoms and management.	5
Q.3	i.	Define Etiology.	1

	ii.	How to manage bacterial pathogen with fungicides.	3
	iii.	Explain two disease of mustard with proper management.	4
		(One disease carry 2 marks)	
OR	iv.	Enlist any four disease of gram with causal organism.	4
		(One disease carry 1 marks)	
Q.4	i.	Differentiate between symptoms and sign.	2
	ii.	Write down any three disease of mango with causal organism, symptoms and management. (One disease carry 2 marks)	6
OR	iii.	Write down any three diseases of citrus with causal organism, symptoms and management. (One disease carry 2 marks)	6
Q.5	i.	Enlist causal organism of downy mildew and powdery mildew of cucurbits.	2
	ii.	How to manage black scurf of potato through IDM?	2
	iii.	Differentiate between Late blight and Early blight disease of potato with symptoms and management.	4
OR	iv.	Describe the two major diseases of garlic with names of causal organism, symptoms and management.	4
		(One disease carry 2 marks)	
Q.6		Attempt any two:	
	i.	Write down the condition of disease triangle for disease development.	4
	ii.	Enlist four names of fungicides with trade name, technical name and target pest. (One fungicides carry 1 marks)	4
	iii.	Brief any two disease of coriander or chilli.	4
		(One disease carry 2 marks)	