

Total No. of Questions: 6

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Enrollment No.....



Faculty of Agriculture  
End Sem Examination Dec 2024  
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.

		Marks	BL	PO	CO	PSO
Q.1	i. Rice neck blast causal organism was first detected by - (a) Cavara (b) Kresek (c) Rachel Carson (d) Frisbie and Adkisson	1	1	1	1	1
	ii. Which causative agent is responsible for the Bengal famine? (a) Fusarium oxysporum (b) Rhizoctonia spp. (c) Colletotrichum psidii (d) Helminthosporium oryzae	1	1	1	1	1
	iii. In tobacco, dark brown necrotic spots develop under hot weather and this symptom is called- (a) Mosaic disease (b) Mosaic virus (c) Mosaic scorching (d) Mosaic orpods	1	2	4	2	2
	iv. Causal organism of wilt disease of red gram- (a) Fusarium udum (b) Fusarium oxysporum (c) Fusarium graminearum (d) Fusarium avenaceum	1	2	3	2	3
	v. Buck eye rot disease is related to _____ crop. (a) Tomato (b) Okra (c) Both (a) and (b) (d) Brinjal	1	1	2	3	2

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vi.	Guava anthracnose is caused by _____. (a) Fusarium oxysporum (b) Rhizoctonia spp. (c) Colletotrichum psidii (d) Pseudomonas spp.	<b>1</b>	3	3	3	2
vii.	Anthrachnose disease of beans is a _____ disease. (a) Air borne (b) Soil borne (c) Seed borne (d) All of these	<b>1</b>	2	2	4	2
viii.	_____ is known as 'pre-emergence damping off in tomato. (a) Early blight of tomato (b) Phomopsis fruit blight (c) Late Blight of tomato (d) Damping off of tomato	<b>1</b>	2	2	4	2
ix.	What organism is responsible for the wilt disease? (a) Rhizoctonia and Verticillium (b) Fusarium and Verticillium (c) Pseudomonas and Fusarium (d) Colletotrichum and Fusarium	<b>1</b>	2	1	5	1
x.	Who discovered the coffee rust disease? (a) Max Schuster (b) George Peltier (c) Millardet (d) Berkley and Broom	<b>1</b>	2	1	5	2
Q.2	i. What is a Khaira disease of paddy?	<b>1</b>	1	1	1	1
	ii. Write down the name of causal organism, perfect stage and symptoms of Anthracnose of Sorghum.	<b>2</b>	2	2	1	2
	iii. Enlist the various types of sorghum smut along with their causal organism and explain anyone.	<b>5</b>	2	4	1	2
OR	iv. Enlist the various diseases of paddy with their causal organisms.	<b>5</b>	3	2	1	3
Q.3	i. Write the causal organism and symptoms of stem blight disease of Cajanus cajan.	<b>1</b>	2	1	2	11
	ii. Describe the causal organism, symptoms, and management of Downy mildew of Bajra.	<b>3</b>	2	2	2	1

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	iii.	How can you identify the major disease of Soybean? Write their symptoms.	<b>4</b>	2	2	2	3
OR	iv.	Draw the disease cycle of Cercospora leaf spot and anthracnose in black & green gram.	<b>4</b>	2	3	2	2
Q.4	i.	Write short notes on- (a) Bacterial blight of Pomegranate (b) Papaya foot rot	<b>2</b>	2	2	3	3
	ii.	Explain the causing agent, symptoms and management strategies to control of Sigatoka and Panama wilt disease of Banana.	<b>6</b>	2	3	3	2
OR	iii.	Briefly describe the symptoms, etiology, disease cycle and management of the following diseases- (a) Guava wilt (b) Banana Sigatoka (c) Papaya leaf curl	<b>6</b>	4	4	3	11
Q.5	i.	How can you identify the major symptoms of yellow vein mosaic disease of Okra?	<b>2</b>	2	2	2	1
	ii.	Classify the major disease of vegetables with their causal organism.	<b>2</b>	2	3	4	3
	iii.	Enlist the various diseases of tomato with their causal organisms.	<b>4</b>	3	3	4	3
OR	iv.	Classify the diseases of cruciferous vegetables with their causal organisms.	<b>4</b>	3	2	4	11
Q.6		Attempt any two:					
	i.	Briefly describe the symptoms, etiology, disease cycle and management of the following diseases- (a) Ginger: soft rot (b) Coffee: rust	<b>4</b>	2	2	5	2
	ii.	Summarize the major disease of coconut and tea also classify their causal organism.	<b>4</b>	2	2	5	11
	iii.	Illustrate the causal organism, symptoms, favourable conditions and management of phytophthora blight of Colocasia.	<b>4</b>	3	3	5	11

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**Marking Scheme**  
**AG3CO37 - Diseases of Field and Horticultural Crops and their**  
**Management -I**

Q.1	i)	a. Cavara	1
	ii)	d. Helminthosporium oryzae	1
	iii)	c. Mosaic scorching	1
	iv)	b. Fusarium oxysporum	1
	v)	a. Tomato	1
	vi)	c. Colletotrichum psidii	1
	vii)	c. Seed borne	1
	viii)	d. Damping off of tomato	1
	ix)	b. Fusarium and Verticillium	1
	x)	d. Berkley and Broom	1
Q.2	i.	Describe in detail about Khaira disease of paddy?	1
	ii.	Write down the name of causal organism of Anthracnose of Sorghum? - 1	2
		Write down the name of perfect stage and symptoms of Anthracnose of Sorghum? - 1	
	iii.	Enlist the various types of sorghum smut along with their causal organism and explain anyone? 2.5	5
		Explain anyone causal organism of sorghum smut disease? 2.5	
OR	iv.	Enlist the various diseases of paddy with their causal organisms.	5
Q.3	i.	Write the causal organism of stem blight disease of Cajanus cajan. - 0.5	1
		Write the symptoms of stem blight disease of Cajanus cajan. - 0.5	
	ii.	Describe the causal organism of Downy mildew disease of Bajra. - 1	3
		Describe the symptoms of Downy mildew disease of Bajra. - 1	

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					Describe the management of Downy mildew disease of Bajra.	- 1
	iii.				How can you identify the major disease of Soybean.	- 2
					write major disease symptoms of Soybean.	- 2
OR	iv.				Draw the disease cycle of Cercospora leaf spot of black & green gram.	4
					- 2	
					Draw the disease cycle of anthracnose of black & green gram.	- 2
Q.4	i.				Write short notes on	2
					i. Bacterial blight of Pomegranate	- 1
					ii. Papaya foot rot	- 1
	ii.				Explain the causing agent, symptoms and management strategies to control of Sigatoka disease of Banana.	6
					Explain the causing agent, symptoms and management strategies to control of Panama wilt disease of Banana.	- 3
OR	iii.				Briefly describe the symptoms, etiology, disease cycle and management of the following disease –	6
					i. Guava wilt	- 2
					ii. Banana Sigatoka	- 2
					iii. Papaya leaf curl	- 2
Q.5	i.				How can you identify the major symptoms of yellow vein mosaic disease of Okra.	2
	ii.				Classify the major disease of vegetables with their causal organism.	2
	iii.				Enlist the various diseases of Tomato with their causal organisms.	4
OR	iv.				Classify the disease of cruciferous vegetables with their causal organisms.	4
Q.6					Attempt any two	
	i.				Briefly describe the symptoms, etiology, disease cycle and management of the following disease –	4
					i. Ginger soft rot	- 2
					ii. Coffee rust	- 2
	ii.				Summarize the major disease of coconut also classify their causal organism.	4
						- 2

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Summarize the major disease of tea also classify their causal organism.

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- iii. Illustrate the causal organism of phytophthora blight of colocasia. - 1      **4**  
Illustrate the symptoms of phytophthora blight of colocasia. - 1  
Illustrate the favourable condition of phytophthora blight of colocasia.  
- 1  
Illustrate the management of phytophthora blight of colocasia. - 1

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