

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

		[2]					[3]					
vi.	Guava anthracnose is caused by _____.	1	3	3	3	2	iii.	How can you identify the major disease of Soybean? Write their symptoms.	4	2	2	
	(a) Fusarium oxysporum (b) Rhizoctonia spp. (c) Colletotrichum psidii (d) Pseudomonas spp.						OR	iv. Draw the disease cycle of Cercospora leaf spot and anthracnose in black & green gram.	4	2	3	
vii.	Anthracnose disease of beans is a _____ disease.	1	2	2	4	2	Q.4	i. Write short notes on- (a) Bacterial blight of Pomegranate (b) Papaya foot rot	2	2	3	
	(a) Air borne (b) Soil borne (c) Seed borne (d) All of these						ii. Explain the causing agent, symptoms and management strategies to control of Sigatoka and Panama wilt disease of Banana.	6	2	3	2	
viii.	_____ is known as ‘pre-emergence damping off in tomato.	1	2	2	4	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	6	4	4	3
ix.	What organism is responsible for the wilt disease?	1	2	1	5	1	Q.5	i. How can you identify the major symptoms of yellow vein mosaic disease of Okra?	2	2	2	1
	(a) Rhizoctonia and Verticillium (b) Fusarium and Verticillium (c) Pseudomonas and Fusarium (d) Colletotrichum and Fusarium						ii. Classify the major disease of vegetables with their causal organism.	2	2	3	3	
x.	Who discovered the coffee rust disease?	1	2	1	5	2	iii. Enlist the various diseases of tomato with their causal organisms.	4	3	3	4	
	(a) Max Schuster (b) George Peltier (c) Millardet (d) Berkley and Broom						iv. Classify the diseases of cruciferous vegetables with their causal organisms.	4	3	2	4	
Q.2	i. What is a Khaira disease of paddy?	1	1	1	1	1	Q.6	Attempt any two:				
	ii. Write down the name of causal organism, perfect stage and symptoms of Anthracnose of Sorghum.	2	2	2	1	2	i. Briefly describe the symptoms, etiology, disease cycle and management of the following diseases- (a) Ginger: soft rot (b) Coffee: rust	4	2	2	5	2
	iii. Enlist the various types of sorghum smut along with their causal organism and explain anyone.	5	2	4	1	2	ii. Summarize the major disease of coconut and tea also classify their causal organism.	4	2	2	5	11
OR	iv. Enlist the various diseases of paddy with their causal organisms.	5	3	2	1	3	iii. Illustrate the causal organism, symptoms, favourable conditions and management of phytophthora blight of Colocasia.	4	3	3	5	11
Q.3	i. Write the causal organism and symptoms of stem blight disease of Cajanus cajan.	1	2	1	2	11						
	ii. Describe the causal organism, symptoms, and management of Downy mildew of Bajra.	3	2	2	2	1						

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

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

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

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

- 2

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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