



## **BRAINWARE UNIVERSITY**

Brainware University
398, Ramkrishnapur Road, Barasa.
Kolkata, West Bengal-700125

## Term End Examination 2024-2025 Programme – B.Sc.(Ag)-Hons-2022 Course Name – Diseases of Field and Horticultural Crops and Their Management -I Course Code - CC-BAG574(T) ( Semester V )

Full Marks : 50

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

## Group-A

(Multiple Choice Type Question)

1 x 20=20

- 1. Choose the correct alternative from the following:
- (i) Which disease is characterized by water-soaked lesions on rice leaves with a yellow halo around them?
  - a) Brown Spot

b) Sheath Blight

c) Bacterial Blight

- d) Khaira Disease
- (ii) Which disease in rice leads to the formation of smut balls containing fungal spores affecting the ovary within the panicles?
  - a) Blast

b) False smut

c) Tungro

- d) Bacterial Blight
- (iii) Which pathogen primarily causes the Late Leaf Spot in groundnut?
  - a) Xanthomonas campestris

b) Cercospora arachidicola

c) Rhizoctonia solani

- d) Fusarium oxysporum
- (iv) Which disease in pigeonpea is characterized by wilting, yellowing, and sudden plant death?
  - a) Phytophthora Blight

b) Wilt

c) Sterility Mosaic

- d) Rhizoctonia Blight
- (v) Which of the following diseases of groundnut primarily affects the leaves, causing small, circular lesions with a yellow halo?
  - a) Early leaf spot

b) Late leaf spot

c) Root rot

- d) Stem canker
- (vi) What is the primary causal agent of black root rot in tobacco plants?
  - a) Phytophthora spp.

b) Xanthomonas campestris

c) Rhizoctonia solani

d) Alternaria alternata

(vii)	Infer the vector of sterility mosaic in pigeon pea.	
	<ul><li>a) Bemisia tabaci</li><li>c) Rhodopholus similis</li><li>Which pathogen causes anthracnose in green gra</li></ul>	b) Aphis gossypii d) Aceria cajani m (mung bean)?
	a) Fusarium oxysporum c) Xanthomonas oryzae Interpret Which pathogen is responsible for Coffe	b) Colletotrichum truncatum d) Phytophthora infestans
	a) Hemileia vastatrix c) Xanthomonas campestris Infer which pathogen is responsible for tomato le	b) Alternaria coffeicola d) Pseudomonas syringae af spot disease?
	a) Tomato mosaic virus c) Alternaria solani Interpret which pathogen causes leaf spot in cruc	b) Xanthomonas campestris d) Pseudomonas syringae ciferous vegetables?
	<ul><li>a) Xanthomonas campestris</li><li>c) Pseudomonas syringae</li><li>Interpret which pathogen is responsible for Papa</li></ul>	b) Alternaria brassicicola d) Erwinia carotovora ya mosaic disease?
	a) Xanthomonas campestris c) Fusarium oxysporum Choose the correct option:Smuts and grain mold crop?	<ul><li>b) Papaya ringspot virus</li><li>d) Colletotrichum gloeosporioides</li></ul>
(xiv)	<ul><li>a) Rice</li><li>c) Sorghum</li><li>Name the rice disease which attacks during flower</li></ul>	b) Maize d) Bajra ering stage.
(xv)	a) Brown spot     c) Flase smut     Identify the genetic material present in rice tungs	b) Bacterial leaf blight d) Tungro o bacilliform virus.
(xvi	<ul><li>a) ssRNA</li><li>c) dsRNA</li><li>) Name the vector of rice tungro virus disease.</li></ul>	b) ssDNA d) dsDNA
(xvii	<ul><li>a) BPH</li><li>c) WBPH</li><li>i) Find out the disease of maize which is related to</li></ul>	b) GLH d) ZZLH crazy top symptom.
	a) Downy mildew c) Bacterial stalk rot i) Name the causal organism of post flowering stalk	b) Fungal stalk rot d) Leaf blight
(xix	<ul><li>a) Peronosclerospora sorghi</li><li>c) Erwinia chrysanthemi</li><li>) Identify the pathogen which produces ergotoxin.</li></ul>	b) Cephalosporium maydis d) Helminthosporium carbonum
(xx)	<ul><li>a) Claviceps microcephala</li><li>c) Aspergillus flavus</li><li>What is the primary source of infection of ergot of</li></ul>	b) Sclerospora graminicola d) All of these of bajra?
	a) Chlamydospore c) Sclerotia	b) Oospore d) None of these

## Group-B

(Short Answer Type Questions)

2.5 x 10=25

Brainward Janes S., 398, Ramkrishnapur Rosd, Barasat Kolkata, West Bengal-700125

2.	What are the common symptoms of early leaf spot in groundnut?		
3.	How does the pathogen of Bacterial spot affect soybean leaves and develop spots? Name the causal organism.	2.5)	
4.	Explain the concept of mosaic disease in tobacco, and its impact on leaf production.	(2.5)	
5.	Outline the etiology and diagnostic symptoms of anthracnose of both black gram and green gram plants?	(2.5)	
6.	Discuss the management tactics of wilt disease of guava.	(2.5)	
7.		(2.5)	
8.	Develop suitable management strategies against yellow mosaic of greengram.	(2.5)	
9.	What are diagnostic symptoms and etiology of Brown spot disease in rice?	(2.5)	
10	. What are significance of Ergot disease in bajra and its management strategies.	(2.5)	
11	. Explain how does foot rot pathogen infect papaya plants.	(2.5)	
OR			
	Conclude the cultural practices to manage Bunchy top virus in banana.	(2.5)	
Group-C			
	(Long Answer Type Questions)	5 x 1=5	
12. Explain the symptoms of blister blight in tea plants and recommend control measures.  OR		(5)	
	Explain the management practices to prevent early and late leaf spots in groundnut.	(5)	
	***********		