



BRAINWARE UNIVERSITY

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Brainware University
Barasat, Koikata -700125

Programme R. C. (A.) H. 2021 (R. C. (A.)

Programme – B.Sc.(Ag)-Hons-2021/B.Sc.(Ag)-Hons-2022

Course Name - Diseases of Field and Horticultural Crops and their Management-II

Course Code - CC-BAG673 (T)/CC-BAG673(T) (Semester VI)

Full Marks: 50

Time: 2:0 Hours

[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 genus of the pathogen causes rust disease in wheat?
 - a) Puccinia

b) Rhizoctonia

c) Fusarium

- d) Tilletia
- (ii) Karnal bunt in wheat is caused by which fungus?
 - a) Tilletia indica

b) Puccinia graminis

c) Bipolaris sorokiniana

- d) Aspergillus niger
- (iii) Name the causal organism (teleomorph) of red rot disease in sugarcane.
 - a) Fusarium moniliforme

b) Ustilago scitaminea

c) Alternaria alternata

- d) Glomerella tucumanensis
- (iv) Name the disease of sugarcane which is caused by a bacterium.
 - a) Red stripe

b) Grassy shoot

c) Smut

- d) Ratoon stunt
- (v) Infer the insect vector that transmits grassy shoot disease in sugarcane.
 - a) Whitefly

b) Aphid

c) Leafhopper

- d) Thrips
- (vi) Name the pathogen that is responsible for downy mildew in mustard.
 - a) Peronospora parasitica

b) Phytophthora brassicae

c) Fusarium solani

- d) Pythium ultimum
- (vii) Recall the symptom that is associated with Ascochyta blight of gram?
 - a) Black streaks on stem

b) Brown sunken spots on pods

c) Wilting of entire plant

- d) Powdery white patches on leaves
- (viii) Which pathogen causes powdery mildew in mango?
 - a) Oidium mangiferae

b) Colletotrichum gloeosporioides

c) Phytophthora palmivora

- d) Fusarium moniliforme
- (ix) Infer the environmental condition that favors the development of powdery mildew of mango.

 a) High humidity and moderate temperature c) Cold and wet conditions (x) Choose the control method which is best for n 	b) Dry and hot weather d) Very low temperature	
a) Spraying with sulfur-based fungicidesc) Removing affected fruits	b) Application of potassium fertild) Using resistant varieties	
(xi) Infer the vector of mango malformation diseas	se.	
a) Myzus persicae c) Aceria mangiferae (xii) Which pathogen causes citrus canker?	b) Aphis craccivora d) Pentalonia nigronervosa	
 a) Xanthomonas axonopodis c) Phytophthora citrophthora (xiii) What is a common symptom of bacterial blight 	b) Colletotrichum gloeosporioide d) Ralstonia solanacearum in cotton?	s
a) Angular leaf spots with water-soaked lesions	b) White powdery patches	
 c) Corky lesions on bolls (xiv) Anthracnose in grapes is caused by which path 	d) Yellow mottling of leaves ogen?	LIBRARY
a) Colletotrichum gloeosporioidesc) Plasmopara viticola(xv) Which pathogen causes apple scab?	b) Guignardia bidwellii Brai	nware University at, Kolkata -700125
 a) Venturia inaequalis c) Erwinia amylovora (xvi) Infer the weather condition that favours powde 	b) Podosphaera leucotricha d) Agrobacterium tumefaciens ery mildew of apple	
a) Hot and dry c) Warm and humid (xvii) Which pathogen causes late blight of potato?	b) Wet and cool d) Cold and dry	
a) Phytophthora infestans c) Pectobacterium carotovorum (xviii) Infer the insect vector of potato leaf roll virus?	b) Alternaria solani d) Xanthomonas campestris	
c) Thrips	b) Whiteflies d) Mites	
(xix) Which pathogen causes downy mildew in cucur		
	b) Alternaria solani d) Xanthomonas campestris	
·	b) Carbendazim d) Chlorothalonil	
Group	-В	
(Short Answer Type		2.5 x 10=25
	_	(2.5)
 Discuss the management of malformation in mang Describe the symptoms and causal organism of dox 		(2.5) (2.5)
3. Describe the symptoms and causal organism of downy mildew of grapevine.4. Design suitable management approaches for viral diseases of potato.		(2.5)
5. Describe the symptoms and causal organism of black stem rust of wheat.		(2.5)
6. Infer the disease cycle and favourable conditions of loose smut pathogen of wheat.		(2.5)
7. Describe the symptoms and name the causal organ	ne. (2.5)	
8. Describe the symptoms and causal organism of late	blight of potato.	(2.5)
Describe the symptoms and causal organism of dov cucurbits.		
 Compile the management practices of downy milde Develop suitable management strategies for karnal 		(2.5) (2.5)

	OR OR OR OR OR	(2.5)
	Group-C (Long Answer Type Questions)	5 x 1=5
12.	. Elaborate the symptoms, causal organism, disease cycle and management of mango malformation.	(5)
	OR Compile the symptoms, aetiology and management of loose smut disease of wheat.	(5)

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