

School: School of Science

Program/s: MSc

Year: 2nd Semester: 3rd

Examination: End Semester Examination

Examination year: December - 2021

Course Code: LS203

Course Name: Plant Pathology

Date: 03/12/2021 Time: 08:30 am to 10:30 am Total Marks: 40
Total Pages: 2

Instructions:

→ Write each answer on a new page

→ Draw neat and well-labelled diagrams wherever required

).		Details				BTL #
1	Q1 A. Choose the correct option (7Marks) 1. MAMPs are					
		a. Molecule associa				
		b. Microbe aligned				
		c. Molecule aligned				
		d. Microbe associat				
	2	. / is a wild				
		a. Lycomarasmin	b. Lycopene c. Lycotoxin d. Lysotoxin			
	3	. Ais a sub				
	. 6	which functions in th				
		inciting agent of the		CO1,	BT1	
		a. Pathotoxin		2,3,4	2	
	4	. Which of the following				
	A	Pectin methyl esterases	1 hydrolyze methyl ester group of pectinic acid			
	В	Pectinesterases	2 hydrolyze pectic substances		al, bus	
	C	Polygalacturonases	3 break the link between adjacent galacturonic acid	2/35/96		
		Lignolytic anzymes-	4 convert hemicelluloses to pentoses and uronides			

Q.4	Write	a detailed note on Integrated Disease Managem	ent (4 Marks)	4	CO1, 2.3.4	BT1,
	adopted for the prevention of this disease?					
	4. How will you identify Aster yellows in the field? What control measures can be					
	What is it known as? How does it help in defense?					
	3. A plant defends itself by means of hairy outgrowth which is found in the epidermis?				CO1, 2,3,4	2
	2. What is the role of tyloses, abscission layer and terpenes in plant defense?					BT1,
	between SAR and ISR?					
	1. Under what circumstances does a plant resort to SAR? What are the differences					
Q.3	Answer the following in detail (4 questions X 3 marks=12 Marks)					
	5. How					
	4. How are reactive oxygen species generated?					
	3. What are the roles of cutin esterase and carboxycutin peroxidase in plant defense?			novo vo	2,3,4	2
	2.What is the disease triangle?				CO1,	BT1,
	will you use to know the % chance of the disease prior to its occurrence?					
Q.2		r the following in one or two sentences (5 quere a plant pathologist studying the incidence of		10		
	air is displaced from the pores between the soil grains					
	7 is a process in which stress is applied to a soil causes densification as					
	pathogen into a region, farm, or planting					
	6 is a method of disease control which prevents the introduction of a				ost i i	
	5. In the disease, pear trees collapse suddenly, as shoots die and leaves roll, turn red and fall					
	5.					
	4. Club root of cabbage is caused by					
	and carboxyl groups of cutin bonds					
	a catalyses hydrolysis of ester bonds occurring between free hydroxyl					
	necrotrophic during the latter stages of disease are called					
	 Innate immunity in plants is also known asresistance Pathogens which are biotrophic during the early stages of infection but become 					
	Q1 B. Fill in the blanks (7 Marks)					
			elicotylenchus species			
			eterodera species			
		gold-colored females				
	7a causal agent of the golden nematode disease is characterized by					
			arley yellow dwarf disease			
		a. Sugarcane grassy shoot disease b. P	eanut stunt disease			
	6 is a disease of the stone fruits which is caused by spiroplasma					
		c. Heterodera Species d. M.	ycoplasma	V		
	a.	Ophiostoma novo-ulmi b. R	hizoctonia solani			