MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE SEMESTER END EXAMINATION

D.SC. (Agri.)				
Semester:IV (Old)TermCourse No.:PATH 243TitleCredits:3 (2+1)TimeDay & Date:Thursday, 02.05.2019Time	 II Academic Year : 2018-19 Diseases of Field Crops and Their Management : 09.00 to 12.00 Total Marks : 80 			
Note: 1. Solve ANY EIGHT questions from SECTION "A". 2. All questions from SECTION "B" are compulsory. 3. All questions carry equal marks. 4. Draw neat diagrams wherever necessary.				
SECTION "A"				
 Q.1 a) Enlist the major diseases of soybean cause management strategies for rust of soybean. 	d by fungi, enumerate the symptoms and			
b) Describe in detail whip smut of sugarcane in respect of symptoms, etiology and management.				
 Q.2 a) Enlist any three important diseases of rice. strategies for bacterial leaf blight of rice. 	· · · · · · · · · · · · · · · · · · ·			
b) Write in detail favorable conditions, spread mosaic disease of green gram.	d survival and management of yellow			
Q.3 a) Write in brief differential characteristics of <i>personatum</i> .	f Cercospora arachidicola and Cercospora			
b) Describe in short symptoms and perpetuat helianthi.	b) Describe in short symptoms and perpetuation of <i>Puccinia helianthi</i> and <i>Alternaria helianthi</i> .			
Q.4 Write short notes (Any two).	Write short notes (Any two).			
a) Blast of ragi b)	Striga			
c) Broomrape d)	Anthracnose of cotton			
Q.5 a) Describe in brief differential characters of	a) Describe in brief differential characters of all smut causing fungi in sorghum.			
b) Describe in brief sterility mosaic disease of pigeon pea in relation with cause, symptoms and management practices.				
Q.6 a) Describe in brief cause and symptoms of d	a) Describe in brief cause and symptoms of downy mildew causing fungi in bajra.			
b) Write in brief causal organism, symptoms, of sunflower.	transmission and management of necrosis			
Q.7 Write cause, symptoms and management for	following diseases.			
a) Root rot of bengal gram b)	Leaf blotch of turmeric			
Q.8 Describe in detail life cycle of <i>Puccinia gran</i>	Describe in detail life cycle of Puccinia graminis tritici			
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Q.9	Give in short, the cause symptoms and management for following diseases.		
	a) Angular leaf spot of cotton.	b) Wilt of safflower.	
Q.10	Write primary and secondary source of infection of following diseases.		
	a) Downy mildew of maize	b) Ergot of bajra	
	c) Tikka of groundnut	d) Rust of sunflower	
	SECTION "B"		
Q.11	Match the following pairs.		
	'A'	'B'	
	1) Cleistothecium	a) Orostius albicinctus	
	2) Phyllody of sesamum	b) Erysiphe polygoni	
	3) Red gram wilt	c) Autoecious	
	4) Linseed rust	d) Hetroecious	
	5) Wheat rust	e) BSMR-736	
	6) Rust of bajra	f) Ergot fungi	
	7) Ascospores in stroma	g) Alternaria ricini	
	8) Leaf blight of castor	h) Brinjal	
Q.12	Fill in the blanks.		
	1) Sterility mosaic disease in pigeon pea is transmitted by		
	2) Leaf curl of tobacco is caused by		
	3) Alternate host of black stem rust of wheat is		
	4) Downy mildew effectively controls by		
	5) Leaf blotch of garlic caused by		
	6) Extreme sensitivity to 2-4-D occurs in crop.		
	7) Fusarium oxysporum perpetuate in soil in the form of		
8) Wheat bunt is caused by			

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