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Enrollment No.....

Faculty of Agriculture End Sem (Odd) Examination Dec-2018

AG3CO05 Fundamentals of Plant Pathology

Programme: B.Sc. (Ag.) Branch/Specialisation: Agriculture

Duration: 3 Hrs. Maximum Marks: 60

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.

Q.1 (1	vicQ.	s) should be wi	ittem in run ins	acad of offiny a	, b, c or d.	
Q.1	i.	Bengal famin	e is caused by			1
		(a) Helmintho	osporium mayd	lis		
		(b) Hemileia	vastatrix			
		(c) Bipolaris	oryzae			
		(d) Puccinia g	graminis tritici			
	ii.	Organism which derive the material they need for growth from living 1				
		plants are call	led as			
		(a) Pathogen		(b) Parasite		
		(c) Pathogeni	city	(d) All of th	ese	
	iii.	Binomial No	menclature sys	stem is given b	by	1
		(a) Carolus L	innaeus			
		(b) Aristotle				
		(c) Antonie v	an Leeuwenho	ek		
		(d) None of the	nese			
	iv.	Fungus belon	g to kingdom -			1
		(a) Ascomyco	otan	(b) Deuteron	mycotina	
		(c) Basidiomy	ycotina	(d) Fungi (m	nycotin)	
	v.	Mollicutes an	re generally Kr	nown as		1
		(a) Virus	(b) Bacteria	(c) Fungi	(d) Viroid	
	vi.	Virus is Mad	le-up of	·		1
		(a) DNA		(b) RNA		
		(c) Both (a) and (b) (d) None of these				
	vii.	Dispersal of f	ungi through_	·		1
		(a) Air	(b) Soil	(c) Water	(d) All of these	

	viii.	viii. Défense mechanism in plant are:		
		(a) Plant body	(b) Antibody	
		(c) Plant toxin secretion	(d) All of these	
	ix.	Coffee rust arrived in year		1
		(a) 1942 (b) 1845	(c) 1886 (d) 1940	
	х.	Which of the following reserv	voir of pathogen found in infected host?	1
		(a) Seed	(b) Alternate host	
		(c) Soil	(d) None of these	
Q.2	i.	Define Pathogenesis with exa	imple.	2
	ii.	Describe the important factor	s of disease triangle.	3
	iii.	Write the characteristics of fu	ingi with suitable example.	5
OR	iv.	Define the following Fung virus.	us, Bacteria, Phytoplasma, spiroplasma,	5
Q.3	i.	Define Nomenclature.		2
	ii.	Describe the binomial syst	tem of Nomenclature and mention its	8
		important rules.		
OR	iii.	Describe sexual and asexual a	reproduction of fungus.	8
Q.4	i.	What is parasitism? Give any	two suitable examples.	3
	ii.	Write the difference between example.	en bacteria and mollicute with suitable	7
OR	iii.	Write the important character	ristics of nematodes with example.	7
Q.5	i.	Define disease development a	and mention its important factor.	4
	ii.	Mention the history of plant work.	pathology with special reference to Indian	6
OR	iii.	Write the role of enzyme, development.	toxins and growth regulators in disease	6
Q.6		Attempt any two:		
-	i.	Give the classification of fung	gicide	5
	ii.		nods of plants disease management.	5
	iii.	Describe the Phanerogamic p	-	5

P.T.O. *****

Marking Scheme

AG3CO05 Fundamentals of Plant Pathology

Q.1	i.	Bengal famine is caused by		1			
		(c) Bipolaris oryzae					
	ii.	Organism which derive the material they need for growth from living					
		plants are called as					
		(b) Parasite					
	iii.	Binomial Nomenclature system is given by		1			
		(a) Carolus Linnaeus					
	iv.	Fungus belong to kingdom -		1			
		(d) Fungi (mycotin)					
	v.	Mollicutes are generally Known as		1			
		(b) Bacteria					
	vi.	Virus is Made-up of		1			
		(c) Both (a) and (b)					
	vii.	Dispersal of fungi through		1			
		(d) All of these					
	viii.	Défense mechanism in plant are:		1			
		(d) All of these					
	ix.	Coffee rust arrived in year		1			
		(c) 1886					
	x. Which of the following reservoir of pathogen found in infected ho						
		(d) None of these					
Q.2	i.	Definition Pathogenesis	1 mark	2			
		Example.	1 mark				
	ii.	Factors of disease triangle.		3			
		Description	2 marks				
		Diagram	1 mark				
	iii.	Characteristics of fungi	4 marks	5			
		Example.	1 mark				
OR	iv.	Define the following Fungus, Bacteria, Phytoplasma	, spiroplasma, virus	5			
			(1 mark *5)				
Q.3	i.	Define Nomenclature.		2			
_		Scientist name	1 mark				
		Definition	1 mark				
	ii.	Binomial system of Nomenclature		8			
	11.	2 monda of otom of 1 tomonolature		3			

		Description	4 marks		
		Its important rules.	4 marks		
OR	iii.	Describe sexual and asexual reproduction of fungus.			
		Sexual reproduction	4 marks		
		Asexual reproduction	4 marks		
Q.4	i.	Parasitism definition	1 mark	3	
		Any two examples.	2 marks		
	ii.	Difference b/w bacteria and mollicute	5 marks	7	
		Example.	2 marks		
OR	iii.	Characteristics of nematodes	5 marks	7	
		Example.	2 marks		
Q.5	i.	Define disease development	2 marks	4	
		Its important factor.	2 marks		
	ii.	History of plant pathology	2 marks	6	
		Reference to Indian work.	4 marks		
OR	iii.	Role of enzyme	2 marks	6	
		Role of toxins	2 marks		
		Growth regulators in disease development.	2 marks		
Q.6		Attempt any two:			
	i.	Classification of fungicide		5	
	ii.	Principles of plants disease management	2 marks	5	
		Methods of plants disease management.	3 marks		
	iii.	Phanerogamic plants	2 marks	5	
		Example.	3 marks		
