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Seat No:		

Enrollment No:____

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PARUL UNIVERSITY COLLEGE OF AGRICULTURE

B.Sc.(Hons.)Agriculture Winter 2019 - 20 Examination

Semester: 2 Date: 17/12/2019

Subject Code :20107152 Time: 2:00 pm to 4:30 pm

Subject Name: Fundamentals of Plant Pathology Total Marks: 50

Subject Fundamentals of Fund Turnology	1000
Instructions	
1. All questions are compulsory.	
2. Figures to the right indicate full marks.	
3. Make suitable assumptions wherever necessary.	
4. Start new question on new page.	
Q.1 Do as Directed.	
A. Fill in the blanks. (Each of 0.5 marks)	
1. Father of Indian rust is	
2. Application of lime in soil reduces the	di

A. Fill in the blanks. (Each of 0.5 marks)	
1. Father of Indian rust is	
2. Application of lime in soil reduces the	disease by increasing
the pH of soil.	
3. Alternate host of bajra rust is	
4. Alternate host of black stem rust of wheat	disease
5. Trade name of mancozeb is	·
6 discovered satellite virus.	
7. Blast of rice is caused by	
8. disease is const	antly present in a moderate to severe form and is
confined to a particular country or district.	
9. Fosetyl-Al is	in nature.
10.Reconstructor of Mycology	
B. Multiple choice type questions. (Each of 0.5 i	
1. Fire blight of apple disease was first time	
a) T. J. Burill	c) P. A. Saccardo
b) W. M. Stanley	d) Robert Hartig
2 discovered parasexuality in <i>Asp</i>	·
a) Robert Hartig	c) K.C. Mahta
b) Pontecorvo & Roper	c) K.C. Mahta d) W. M. Stanley
3. Alternate host of black stem rust of wheat d	isease
a) Barbery	c) weed
b) pea	d) brinjal
4. Destructive insects and pests act was passed	
a)1912	c)1914
b)1935	d)1940
5 discovered satellite virus.	
a)Kassins	c) P. A. Saccardo
b) W. M. Stanley	d) Robert Hartig
6. Irish famine is associated with.	
a) late blight	c) india
b) early blight	d) Australia
7. Tridemorph	
a) Beam	c) Bavistin
b) Amistar	d) Calixin
8. Collection and destruction of crop debris from	
a)Sanitation	c) Exclusion
b)Eradication	d) Quarantine
9. Father of forest pathology	
a) Miles Joseph	c) E J Butler
b) E F Smith	d) Robert Hartig
10 discovered first systemic fu	C
a) Schmeling	c) J. F. Dastur
b) K. R. Kirtikar	d) B. B. Mundkur
11. Loranthus is	\D
a) Complete root parasite	c) Partial root parasite
b) Partial stem parasite	d) Complete stem parasite

	12. Discovered 'Mycoplasma'			
	a) X. S. Prusiner	c) Doi and Ishii		
	b) Y. Mckinney	d) T. O. Diener		
	13facultative parasites can pa	ass their entire life in the	soil.	
	a) Unspecialized	c) Obligate		
	b) Specialized	d) none		
	14.Kresoxin methyl fungicide comes under group _		of fungicide	
	a) Benzimidazoles	c) Pyrimidines	-	
	b) Acylalanines	d) Strobilurins		
	15. Little leaf disease of brinjal is caused by			
	a) Fungi	c) Bacteria		
	b) Phytoplasma	d) Nematode		
	16. Which one is a beneficial plant bacterium?			
	a) Erwinia amylovora	c) Clostridium tetani		
	b) Rhizobium spp.	d) Xanthomonas campo	estris pv. Citri	
	17. Club root of crucifers caused by		_	
	a) Armillariella mellea	c) Plasmodiophora bro	assicae	
	b) Synchytrium endobioticum	d) Ophiobolous gramin	nis	
	18. Rice tungro virus transmitted by	•		
	a) Aphids	c) whitefly		
	b) Leaf hopper	d) Jassids		
	19. Coffee rust disease was introduced in India from	n		
	a) Sri Lanka	c) Java		
	b) Europe	d) Philippines		
	20. Father of biological control	_		
	a) S D Garrett	c) Doi and Ishii		
	b) X. S. Prusiner	d) B. B. Mundkur		
Q.2	Do as Directed.			
\mathbf{A}	. Define the following. (Any five)			(05)
	1. Pathogen			
	2. Disease			
	3. Primary infection			
	4. Resistant			
	5. Disinfestant			
	6. Quarantine			
ъ	7. Hyperplasia			(05)
В	Answer the following. (Any Five)			(05)
	1. Name three reference books related to this course.	se.		
	2. Enlist the source of survival of pathogen.			
	3. Enlist mechanisms of biological control.			
	4. Name the phanerogamic plant parasites.			
	5. Explain plant disease triangle with diagram.			
	6. Enlist the different type of plant resistances.			
Λ 2	7. Enlist important plant pathogens.			(10)
Ų.S	Write short notes. (Any five)	un in host dymina infastio		(10)
	1. Explain process of penetration of plant pathoge		011.	
	2. Give classification of fungicides based on meth	ious of application.		
	3. Plant quarantine			
	4. Differentiate between virus and viroid			
	5. Differentiate between Biotroph and Necrotroph		~	
0.4	6. Differentiate between Systemic fungicides and	non-systemic fungicides	S.	(15)
Q.4	<u> </u>			(15)
	Explain in brief: survival. Explain in brief: dispersal.			
	2. Explain in brief: dispersal.			
	3. Explain in brief: Infection process.	nt		
	4. General principles of plant disease manageme	III.		