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No. of Printed Pages: 2

SÁRDAR PATEL UNIVERSITY

M.Sc., (II Semester) Botany Examinations.

23rd March, 2019 (Saturday)

10.00 am to 01.00 p.m

Paper: PS02CBOT23- Mycology and plant pathology

Total marks: 70

								(0.1	0
1.		Choose the most appropriate answer: Which one of the sexual reproduction mode is considered to be advantaged.							8 marks)
i)				pe auvanceu?					
	4) 331111148113				c) gametangial contact d) none of these				
	b) Planogametic copulation d) none of these						01 111000		•
ii)	Nu	Number of ascospores normally found in asc							
,	a) 10 b) 12		c) 8		Ċ	d) 16			
iii)	The scientific name for milky mushroom is					c) Pleurotus sajor-caju			
		a) Agaricus bisporusb) Agaricus arvensis			-	d) Celocybe indica			`
		Uj	Aguircus ui	vensis		u) 001			
iv)	Approximate number of lichen species recorded is								
					c) 10,000			of these	
						1		valuda	
v) Some of the favourable conditions for blast disease of rice include									
			Hot dry clin		igh humidity				•
	ii		Excessive n						
			Fewer rainy					•	
	a)	i on	ly	b) ii an	d iii	c) ii o	nly	d) i and	iv
vi`	In	the	CC-NBS-LR	R sequenc	e, NBS indica	ites			
٠-,	,				ein to bind Dì		,	cation in cell	
b) Its ability to bind a protein. d) its sequence.									
			р •	11					
VI	i) Sn		of corn is cau			c\ P11	eccinia gra	aminis	•
a) Ustilago maydis b) Fusarium sps			•	d) Colletotric					
		U)	1 usurum s	ρs	a) control				
vi	ii)	Tl	ne NPR1 prot	ein is sepa	rated into mo	nomers	due to a	change in	in 、
			e plant cytop		is.				of their
		a)	Redox pote	ntial	b) ion conte	nt :	c) temp	perature d) nor	ie of these
•	**	T •4.	. 1		****				$(7 \times 2 = 14)$
2.			short notes		<u>ven.</u>				(1 A 2 21)
	a)		hat is a cyst?						
			hat are arbus		enihiotic and	interbio	otic.		
 c) Differentiate endobiotic, epibiotic and interbiotic. d) Definet Podetic e) Name the causal organisms and two symptoms each of ergot of rye and red ro 									
									nd red rot of
	e)			ai oigainsi	no and two sy	прии	o caon or	0.800 01.70 0.	
	Ð	-	igarcane eccribe bost	and non-ho	st resistance				
	f)	עי	Cauliug Host	ana non-n	ist resistance				C 0.004
									(PTO)

(6 marks) 3. a) Describe the process of ascus formation. (6 marks) b) Explain the life cycle of Allomyces arbuscula OR (6 marks) b) Write a note on phylum Zygomycota 4. a) Explain the procedure for the preparation of mother spawn and commercial (6 marks) Spawn. (6 marks) b) Write a note on vegetative forms of lichen. (6 marks) b) Explain in detail reproduction in lichen. 5. a) Outline the lifecycle of Puccinia graminis. Describe the control measures (6 marks) for the rust of wheat. b) Describe the life cycle of Magnaportha grisea and write a note on (6 marks) management of rice blast disease. b) Describe hypersensitive response (HR). What are the physiological and molecular changes during HR in plants? (6 Marks) 6. a) Describe the properties and uses of Sulphur based antifungal substances (6 Marks) b) Outline Salicylic acid mediated defense mechanism in plants. (6 Marks) ii) PR proteins (6 Marks) b) Write on i) Bacterial wilt of Banana

g) Disadvantages of chemical control of diseasesh) What are the control measures for Fusarium wilt?

i) Symptoms of bacterial leaf blight of rice.