M. Sc. (Final) Examination, 2001 BOTANY Paper-IV (D)

(Advanced Plant Pathology)

Time- Three Hours Maximum Marks-100

Attempt **FIVE** questions in all, selecting at least **TWO** questions from each Section. All questions carry equal marks.

SECTION A

1	Write about contributions of following in the development of plant pathology:- (A) B. B. Mundkur (B) R. S. Singh	
	(C) N. Prasad (D) Y.L. Nene.	5+5+5+5
2.	Write detailed notes on the following:-	
	(A) Defense mechanism in plants against invasion of pathogens	
	(B) Physiological specialization in parasitic fungi.	10+10
3.	Write detailed account of methods of sterilization, different culture media for culture of fungi with special r their physico-chemical requirements.	eference to 20
4.	Write notes on the following:-	
	(A) Culture of biotrophic fungi.	
	(B) Meristem tip culture.	10+10
5.	Write an essay on the host-parasite interaction with special reference to physiological and biochemical ch place during pathogenesis.	anges taking 20
	SECTION B	
6.	Give a general account of morphology, internal structure and outline classification of phytophagous nema Describe any two important phytophagous nematodes studied by you.	itodes. 20
7.	Write about history of discovery, structure and classification of phytoplasma with special reference to thei diseases in plants.	r role in 20
8.	Write brief account of the following diseases describing causal agent, etiology and control measure for ea (A) Ear-Cockle of Wheat	ach of them:-
	(B) Green-ear disease of Bajra	
	(C) Tobacco mosaic disease	
	(D) Red-rot of Sugarcane.	5+5+5+5
9.	Write brief notes on the following:-	
	(A) Angular leaf spot of Cotton	
	(B) Grain Smut of Sorghum	
	(C) Powdery Mildew of Pea	
	(D) Grassy shoot of Sugarcane.	5+5+5+5
10.	Write short account on the following:-	
	(A) Molecular signalling and host-parasij	
	(B) Enzymes and Pathogenesis.	10+10

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