This questio	on pap	er contains 3 prin	ted pages.		Your Roll No
Sl. No. of	f Que	es. Paper	: 1661		С
Unique Paper Code		: 216201			
Name of	Раре	er	: Biodiversit	ty II (Mycology and Ph	ytopathology)
Name of	Cou	rse	: B.Sc. (Hon		
Semester			: II	•	
Duration	: 3 h	ours			Maximum Marks: 75
		(Write your	Roll No. on the top im	unediately on receipt of this question pape	
				l'ION A rcology)	
		A	•	tions from Section A. 1 is compulsory.	
l. (a)	Fill i	n the blanks:			
	i)	The term 'Myxo	omycetes" was u	sed for slime molds by	jr
	ii)			asmic body in the centre of t	he oosphere
	iii)	Amphigynous a	ntheridium is pro	oduced by the genus	·
	iv) v)	Genus	is the lar	ops on the host	e having
	•,	epigean apothec	ia.		
	vi)	is characteristic		lack, with nerve-like ribs on	the outer wall
	vii)	In Stemonitis the	fruiting body is	s called	4
	viii)	:11-2	r root – like aggi ———-	regation of somatic hyphae	in Basidiomycetes
	ix)	An intercellular	network of hypi	nae in ectomycorrhiza is kno	own as
	x)	Enlargement of attached to the s	the pileus ruptur	res the velum and leaves a ri	ing called
		atached to the 3	ripe.		10 X 1 = 10
(b)	Defin	ne the following (erms giving one	e example (any two):	-
		Capillitium			
	ii) A	Appresorium			
		AM Fungi leteroecism			2 V 1 − 2
					2 X 1 = 2
2. (a)		hat respects slime are they placed		e i) plants and ii) animal	s?

	(b) Explain the annual recurrence of wheat rust in the plains of India.	6
3.	Differentiate between any four of the following:	
	(a) Macroconidia and Microconidia of Neurospora	
	(b) Crustose and Foliose lichens	
	(c) Ascospore and Basidiospore	
	(d) Aethelia and Plasmodiocarp	
	(e) Asexual reproduction of Alternaria and Phytophthora	(3/3 13
	(f) Rusts and Smuts	$4 \times 3 = 12$
4,	Draw well labelled diagrams of any three of the following:	
	a) VS of wheat leaf infected by Puccinia	
	b) VS apothecium of lichen	
	c) VS gills of Agaricus	
	d) EM yeast cell - Saccharomyces cerevisiae	27/4 12
	e) Asexual stage of Penicillium	3 X 4 =12
5.	(a) Give a comparative account of different types of ascocarps.	6
	(b) Describe sexual reproduction in Rhizopus.	4
	(c) Give asexual reproduction of an antibiotic – producing fungal genus.	2
6.	(a) Write short notes on any three of the following giving examples:	
	i) Dolipore septum	
	ii) Mushroom cultivation	
	iii) Diplodisation	
	iv) Mycoinsecticides	$3 \times 2 = 6$
	(b) Give the generic names of any six of the following:	
	i) Fission Yeast	
	ii) Blister rust	
	iii) Drosophila of the fungus world	
	iv) Bunt spore	
	v) Naked ascus	
	vi) Branched multicellular conidiophore	
	vii) Multicellular muriform conidia	$6 \times 1 = 6$

SECTION B (Phytopathology)

Attempt any one question from Section B.

1. (a)		Give the symptoms caused by the following:				
		i) Alternaria solani ii) Albugo candida	2 X 5 = 10			
	(b)	Give the classification of plant diseases on the basis of				
		 i) the extent to which diseases are associated with the plant. ii) geographic distribution. 	5			
2. (a) Name the causal organism and mention the control measures of any one of the following plant pathogens:						
		i) Late blight of potato ii) Wheat rust	6			
	(b)	Write short notes on any three of the following:				
		i) Systemic fungicidesii) Plant Quarantine Regulationsiii) Antibiosis				
		iv) Biological Controlv) Hypersensitive Reaction	3 X 3 = 9			