[Th	is question paper o	ontains 4 printed	l pages.]					
Sr.	No. of Question Pap	er : 741	E .	Your Roll No				
Un	ique Paper Code	: 216201						
Na	me of the Course	: B.Sc. (H)	Botany					
Name of the Paper		: Boidiversity	√-II: Mycology ar	nd Phytopathology [BTHT-202]				
Semester		: II						
Du	ration: 3 Hours	•		Maximum Marks: 75				
Ins	tructions for Can-	di <u>dates</u>						
1.	1. Write your Roll No. on the top immediately on receipt of this question paper.							
2.	2. Attempt five questions in all.							
3.	Question No. 1 is	compulsory.						
4.	All parts of a que	stion must be an	swered together	•				
5.	Draw well labelled diagrams wherever necessary.							
1.	(a) Fill in the bla	anks : (Any five)	<u>.</u>	(5×1=5)				
	(i) In Basic	diomycota, the se	ptal pore comple:	x is known as				
	(ii) Heterot	hallism was disc	overed by					
٠	(iii)	_	peaked, pigmented	d, multicellular and muriform				
	_	ral like outgrow		surface of lichen thallus is				
	(v) Paragy	nous antheridium	is formed by					

		(vi) are formed on the upper surface of Barberry leaf.		
	(b)	Name the following: (Any five)	(5×1=5)	
		(i) Phialides		
		(ii) Red bread mould		
		(iii) A fungus causing candidiasis		
		(iv) A poisonous mushroom		
		(v) Reindeer moss		
		(vi) A predaceous fungus		
	(c)	Define any five of the following terms:	(5×1=5)	
		(i) Stolon		
		(ii) Capillitium		
		(iii) Stroma		
		(iv) Necrosis		
		(v) Hartig net		
		(vi) Budding		
2.	Diff	ferentiate between any three of the following:	(3×5=15)	
	(a)	Anamorph and Telomorph	,	
	(b)	Cleistothecium and Perithecium		
•	(c)	Early blight and Late blight of potato		
	(d)	Foliose and Fruticose lichen		

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3. Write short notes on any three of the following:

	(a) Sexual reproduction in Rhizopus					
	(b) Germination of sporangium in Phytophthora					
	(c) Parasexuality					
	(d) AM fungi					
4.	Draw well labelled diagrams of any three of the following: $(3\times5=1)$	5)				
	(a) E. M. of budding yeast cell					
	(b) V. S. gill of Agaricus					
	c) Conidial apparatus of <i>Penicillium</i>					
	(d) T. S. of heteromerous thallus of lichen					
5.	(a) Describe stages in the life cycle of <i>Puccinia graminis tritici</i> produced the secondary host.	n				
	(b) Discuss different modes of nutrition in fungi.					
	(c) Describe different types of fruiting bodies in Myxomycetes. (3×5=1	5)				
6.	Write short notes on any three of the following: $(3\times5=1)$	5)				
	(a) Biological control					
-	(b) Economic and ecological significance of lichens					
	(c) Application of fungi in food industry					
	(d) Mushroom cultivation					

 $(3 \times 5 = 15)$

- 7. (a) Name the pathogen, write the symptoms and control measures of white rust of crucifers.
 - (b) Describe chemical methods to control plant diseases caused by fungi.
 - (c) Describe the role of quarantine in plant disease control. $(3\times5=15)$