Sr. No. of Question Paper	: 7780	F-2	Your Roll No		
Unique Paper Code	: 2161201				
Name of the Course	: Bachelor with Ho	nours in B	Sotany		
Name of the Paper	: Mycology and Phy	topathology	y [DC-1.3]		
Semester	: II				
Duration: 3 Hours			Maximum Marks : 75		
Instructions for Candida	<u>ites</u>				
1. Write your Roll No. o	on the top immediate	ly on receip	ot of this question paper.		
2. Attempt five question	Attempt five questions in all.				
3. Question No. 1 is con	npulsory.				
4. All parts of a question	All parts of a question should be answered together.				
5. Draw well-labelled di	Draw well-labelled diagrams wherever necessary.				
1. (a) Fill in the blanks	:				
(i) Hypha wit	h dolipore septum i	s a charact	teristic feature of class		
(ii) Parasexual	cycle was discovered	in the filan	nentous fungus		
(iii) A propagule cells is		celium loos	ely intertwined with algal		
(iv) Toxins prod	duced by fungi are kn	nown as			
(v) Fungi store	reserve food materia	ıl in the for	m of (5×1=5)		
(b) Give the generic i	names of the followin	g:			
(i) An edible e	pigeal Ascomycete				

[This question paper contains 4 printed pages.]

	(ii) A heteroecious fungus	
	(iii) A fungus used to flavour cheese	
	(iv) Drosophila of plant kingdom	
	(v) Fission yeast	(5×1=5)
	(c) Define the following terms (any five):	
	(i) Peridium	
	(ii) Coenocentrum	
	(iii) Haustorium	
	(iv) Myxamoeba	
	(v) Rhizomorph	
	(vi) Appressorium	(5×1=5)
2.	Differentiate between (any five):	
	(i) Phragmobasidium and Holobasidium	
	(ii) Rusts and smuts	
	(iii) Ectomycorrhiza and Endomycorrhiza	
	(iv) Isidium and Cephalodium	
	(v) Ascus and basidium	
	(vi) Sporangium and conidium	(5×3=15)
3.	Draw well labelled diagrams of (any three):	
	(i) V.S. apothecium of Peziza	
	(ii) V.S. heteromerous Lichen thallus	
		•

(iii) V.S. Berberis leaf passing through aecial cup

	(iv)	Asexual reproductive structure of Penicillium	$(3 \times 5 = 15)$
4.	Wr	ite short notes on (any three):	
	(i)	Secondary hornothallism	
	(ii)	Bioluminescence	
	(iii)	Sexual reproduction of Albugo	
	(iv)	Physiological specialization in Puccinia graminis	(3×5=15)
5.	(i)	Give a brief account of somatic phase of Myxomycetes. Draw diagram of sporangium of <i>Stemonitis</i> .	a well labelled (5)
	(ii)	Comment on the role of Quarantine Regulation and soil san pathology.	itation in plant (5)
	(iii)	Suggest the reasons for including Saccharomyces in Ascomy sexual cycle of Sacharomyces cerevisiae.	vectes. Give the (5)
6.	(a)	Describe the symptoms, causal organism and control of Blac wheat.	ck stern rust on (6)
	(b)	Explain briefly the following:	•
		(i) Clamp connections in Basidiomycetes.	
		(ii) Fairy rings	
		(iii) Parasexual cycle	(3×3=9)
7.	(a)	Define the following terms with one example each:	
		(i) Mosaic	
		(ii) Chlorosis	
			PTO.

- (iii) Blight
- (iv) Hyperplasia
- (v) Hypertrophy
- (vi) Target board effect

 $(6 \times 1\frac{1}{2} = 9)$

(b) Comment on economic importance of Rhizopus.

(3)

(c) Why is genus *Neurospora* suitable for genetic studies? Write a short note on its sexual reproduction. (3)