This question paper contains 4+2 printed pages]				
	Your Roll No			
1291				
	B.Sc. (Hons.) Botany/II Sem. A			
	Paper—BTHT-202			
	BIODIVERSITY—II			
Time: 3 He	ours Maximum Marks: 75			
(Write your Roll No. on the top immediately on receipt of this question paper.)				
	Section A 60			
	(Mycology)			
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	(Mycology)			
	(Mycology)  apt five questions from this Section A. Question No. 1 is			
comp	(Mycology)  Apt five questions from this Section A. Question No. 1 is ulsory.			
comp	(Mycology)  apt five questions from this Section A. Question No. 1 is ulsory.  Fill in the blanks:			
comp	(Mycology)  Apt five questions from this Section A. Question No. 1 is ulsory.  Fill in the blanks:  (i) The brown rust of wheat is caused by			

	()	dedictionly ectes, the septal pole complex is
		known as septum.
	(iv)	The parasexual cycle discovered by G. Pontecorvo
		and J.A. Roper in a filamentous fungus
		is
	(v)	In Albugo candida the sporangia are produced in
		a succession.
	(vi)	Peziza belongs to the order
	(vii)	The phenomenon of heterothallism was discovered
		by in 1904.
	(viii)	Genus produces beaked, pigmented
		muriform and multicelled conidia. 21/2×10=5
(b)	Defi	ne the following (any seven):
	(i)	Rhizomorph
	(ii)	Haustoria
	(iii)	Obligate parasite
	(iv)	Perithecium
		<u>-</u>

(v) Ascocarp

		(VI) Cyphanae
		(vii) Helotism
		(viii) Heteroecism
		(ix) Lichen. 1×7=7
2.	Diffe	erentiate between the following (any four):
	(a)	Spermogonium and Aecium
	(b)	Cleistothecium and perithecium
	(c)	Isidium and cephalodium
	(d)	Rusts and smuts
	(e)	Amphigynous and paragynous antheridia. 3×4=12
3.	(a)	Suggest the reasons for including Saccharomyces in
		Ascomycetes. 5
	(b)	Describe the different types of fruiting bodies in
		Myxomycetes. 4
	(c)	Describe asexual reproduction of Penicillium. 3
		P.T.O.
		P.T.O.

3×4=12

Comment on the following: 4. (a) (i) Ecological importance of lichens. 3 Physarum as an experimental tool. (ii)2 (iii) Special features of Oomycetes. 3 Write the botanical names of the following (any (b) two): Two hosts on which rusts occur. (i) Two important hosts of Albugo. (ii)(iii) Two fungi used in medicine.  $2 \times 2 = 4$ Draw labelled diagrams of the following (any four): (a) V.S. heteromerous thallus of lichen. V.S. Potato leaf showing asexual reproduction in (b) Alternaria. V.S. wheat leaf showing stages of Puccinia. (c) Asexual reproduction of Rhizopus. (d) (e) V.S. infected leaf showing asexual stage of Phytophthora

infestans.

P.T.O.

6.	Write	short notes on any four of the following	g with		
	examples :				
	(a)	Dolipore septum			
	(b)	Clamp connection			
	(c)	Fruticose lichen			
	( <i>d</i> )	Fairy ring in mushrooms			
	(e)	Coprophilous fungus			
	Ø	Biological control.	3×4=12		
7.	Write	notes on any three of the following:			
	(a)	The various types of life cycle in yeast.			
	(b)	Sexual reproduction of Neurospora			
	(c)	Basidiocarp of Agaricus			
	(d)	Parasexual cycle.	4×3=12		

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Section B

15

## (Phytopathology)

Attempt both the questions from this Section B.

- 1. Write down the causal organism and symptoms of white rust of crucifers.
- Name the causal organism, give symptoms and control of early blight of Potato.