

WEST BENGAL STATE UNIVERSITY

B.Sc. Honours 2nd Semester Examination, 2022

BOTACOR03T-BOTANY (CC3)

MYCOLOGY AND PHYTOPATHOLOGY

Time Allotted: 2 Hours Full Marks: 40

The figures in the margin indicate full marks.

Candidates should answer in their own words and adhere to the word limit as practicable.

All symbols are of usual significance.

1.		Answer <i>all</i> the following questions in brief:	$1 \times 6 = 6$
	(a)	Mention the main components of fungal cell wall.	1
	(b)	What do you mean by pathogenecity?	1
	(c)	Name one facultative parasite.	1
	(d)	What are endemic diseases?	1
	(e)	Write the name of one bioluminescence fungus.	1
	(f)	What is Buller phenomenon?	1
2.		Answer any <i>eight</i> questions from the following:	3×8 = 24
	(a)	What is mitosporic fungi? Define any two types of asexual spore forming bodies found in them.	1+2
	(b)	What is VAM? Enumerate the characteristic features of Ectomycorrhiza.	1+2
	(c)	Distinguish between hypertrophic and hyperplastic symptoms.	3
	(d)	What are the salient features of basidiomycota?	3
	(e)	What is biological control? Name two fungi used in biological control.	1+2
	(f)	Mention the different types of fruit bodies found in slime molds.	3
	(g)	What do you mean by heterokaryosis? State its significance.	1+2
	(h)	What are systemic fungicides? Give two examples.	2+1
	(i)	Give a brief account of the growth forms of lichens found in nature.	3
	(j)	Draw and label the conidiophore of the genus <i>Penicillium</i> .	2+1
3.		Answer any <i>two</i> questions from the following:	$5 \times 2 = 10$
	(a)	Schematically represent the different types of life cycles found in the genus <i>Saccharomyces</i> . Comment on the life cycle pattern.	3+2

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- (b) Name the causal organism of late blight of potato disease. Write down the symptoms of early and late blight of potato disease.
- (c) What are mycotoxins? Classify the mycotoxins broadly with examples. 1+4
- (d) Write down the salient features of Oomycota. Mention any two characters that are unique to this group.

N.B.: Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.

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