P. P. SAVANI UNIVERSITY

Fifth Semester of B.Sc. Examination December-2021

09.12.2021, Thursday

SSMB3010-Mycology I Time: 09:00 a.m. to 11:30 a.m.

Maximum Marks: 60

Instructions: 1. The question paper comprises of two sections. 2. Section I and II must be attempted in separate answer sheets. 3. Make suitable assumptions and draw neat figures wherever required. 4. Use of scientific calculator is allowed. Section-I (Total Marks - 30) **Short Questions** 0.1 [10] 1.1 **Objectives** [05] are classified based on hyphae and mycellium 1.1a A Virus B Protozoa C Bacteria D Fungi 1.1b Fungi are categorized into two types A Bugs and Yeasts B Molds and Yeasts C Molds and Ticks D Algae and Yeasts _is known as Black Bread Mould. A Rhizopus B Cyanobacteria C Lichens D Mushrooms **1.1d** Body of Fungi is known as A Thallus B Chitin C Stem D Leaves

A Rhizoids

Stolons

Septa D Thallus

В

C

1.1e The root like structure of hyphae that anchors the fungi are

	A	With Septa	
	В		
1	C		1
	D		
11	or In	BUTTLE ME COLUMN STATE OF SHIP	
1.1	5 III	asexual spores, the production of spores is by	
	A B		
		Double Mycellium	
	C	Triple Mycellium	
	D	Quaternary Mycellium	
1.11	ı Fu	ingi are importantof organic matter	
	A	Producers	
	В	Decomposers	
	C	Makers	
	D	Parasites	
1.1i	m).	man in the College on the College College of the In the College of the United	
1.11		e nuclear fusion phase where positive and negative nuclei fuse to form a	
	uip	note 2ygote nucleus is also known as	
	A	Karyogamy	
	В	Plasmogamy	
	C	Meosis	
1 4:	D	Cell Fusion	
1.1j	Asc	cospores that are produced within spherical cells are known as	
	A	Smutes	
	В	Hyphae	
	C	Henle	
	D	Asci	
1.2	Ans	swer the Following:	
1.2a	Defi	ine : Mycology	[05]
1.2b		at are Basidiospores?	
1.2c		at are Saprophytes?	
1.2d	d What are Oospores?		
1.2e		ne : Fungi	
0.2	CI		
Q.2	Shoi	rt Notes (Attempt any two)	[06]
4	angar cen wan composition		
В	Туре	es of Sexual Spores	
2	Bene	efits of Mycorrhiza	
2.3	Expl	ain in detail (Attempt any two)	
1	Asex	rual Reproduction in Fungi	[14]
3.	Clam	ap Connections in Basidiomycetes	
	Type	es of Lichens	
	. T		

Section-II (Total Marks - 30) Q.1 Short Questions 1.1 Objectives 1.1a Saccharomyces cerevisiae is the example of_ A Bacteria B Fungi C Yeast D Molds 1.1b Penicillium is used in the production of____ A antibiotics B cheese fermentation C both (A) and (B) D none of the above 1.1c The symbiotic association of algae and fungi is known as _ A Mycorrhiza B Lichen C Mycoplasma D Both (A) and (A) 1.1d The endomycorrhizae are found in ____ A herbaceous plants B woody plants C grasses D all type of plants 1.1e Aspergillus has _____ hyphae. A aseptate and uninucleate B aseptate and multinucleate C septate and uninucleate D septate and multinucleate 1.1f The fungal partner in ectomycorrhiza belongs to the class __ A Basidiomycetes B Ascomycetes C Zygomycetes

1.1g Which of the organism produces aflatoxin?

A Fungi

B Virus

C Nematodes

D all of the above

D Bacteria

[10]

[05]

1.1h	Which one of the following pairs is correctly matched?				
	A Rhizobium - Parasite in the roots of leguminous plants				
1	B Mycorrhizae - Mineral uptake from soil				
	C Yeast - Production of biogas				
	D Myxomycetes - The disease ring worm				
1.1i	In mycorrhiza, the fungus may form colonies				
	A extracellularly				
	B intracellularly				
	C both (A) and (B)				
	D depends on conditions				
1.1j	Which one of the following is known as blue mould?				
	A Penicillium				
	B Rhizopus				
	C' Mucor	,			
	D Aspergillus				
1.2	Answer the Following: (MCQ/Short Question/Fill in the Blanks)	[05]			
1.2a					
1.2b	Majorly, lichens are the pollution indicators of				
1.2c	What is Peziza?				
1.2d					
1.2e					
Q.2	Short Notes (Attempt any two)	[06]			
A	Write a note on Lichens.				
В	Write a note on Neurospora.				
C	Write a note on Endomycorrhiza.				
Q.3	Explain in detail (Attempt any two)	[14]			
A	Discuss about life cycle of Aspergillus.				
В	Explain about reproduction of Mycorrhiza.				
C	Explain about reproduction of Mycormiza. Explain structure and life cycle of Saccharomyces.				
C	Explain Structure and me cycle of Saccharomyces.				
	A A CONTRACTOR OF THE PARTY OF				