Enrollment No: _____ Exam Seat No:_____

C. U. SHAH UNIVERSITY

Winter Examination-2020

Subject Name: Mycology and Phycology

Subject Code: 5SC01MAP1 **Branch: M.Sc. (Microbiology)**

Semester: 1 **Date: 10/03/2021** **Time: 11:00 To 02:00** **Marks: 70**

Instructions:

(1) Use of Programmable calculator and any other electronic instrument is prohibited.
(2) Instructions written on main answer book are strictly to be obeyed.
(3) Draw neat diagrams and figures (if necessary) at right places.
(4) Assume suitable data if needed.

SECTION – I

Q-1 Attempt the Following questions (07)

a. Enlist the types of thallus organization present in algae. 01
b. Define Aplanospores. 01
c. What is Aflatoxins? 01
d. Some of the member of kingdom fungi contains photosynthetic pigment. True/False 01
e. Which fungal phylum is known as true slime molds? 01
f. Define Isidium (Isidia). 01
g. Define Cryophytic algae. 01

Q-2 Attempt all questions (14)

a What is mycorrhiza? Write a brief note on the types of mycorrhiza. **07**
b Write a detail note on fungal and insect symbiosis. **07**

OR

Q-2 Attempt all questions (14)

a Write a detail note on fungal sex hormones. **07**
b Write a brief note on Myxomycetes. **07**

Q-3 Attempt all questions (14)

a Write a brief note on the characteristics of the fungus. **07**
b Write a detail note on Quorum sensing in fungus. **07**

OR

Q-3 Attempt all questions (14)

a Write a detail note on the diverse applications of algae. **14**

SECTION – II

Q-4		**Attempt the Following questions**	**(07)**
	a.	What is Crustose?	01
	b.	Phycobiliproteins present in only two algal group, one and Rhodophycophyta and second is Cryptophycophyta. True/False	01
	c.	What is Appressorium?	01
	d.	Enlist any two names of algae which is used as human and animal food.	01
	e.	Order Entomophthorales belongs to which fungal phylum?	01
	f.	Where do Terricoles lichens grow?	01
	g.	What is the function of Cephalodium in the lichen thallus?	01
Q-5		**Attempt all questions**	**(14)**
	a	Write a short note on Eukarpic thallus and Holokarpic thallus.	**05**
	b	Write a note on the fruiting body of ascomycetes.	**05**
	c	Write a short note on the types of lichens.	**04**
		OR	
Q-5		**Attempt all questions**	**(14)**
	a	Give a detail note on fungal reproduction.	**07**
	b	Write a detail note on mycotoxins.	**07**
Q-6		**Attempt all questions**	**(14)**
	a	Write a detail note on the algal classification.	**07**
	b	Give a brief note on the special structures seen the fungus.	**07**
		OR	
Q-6		**Attempt all Questions**	**(14)**
	a	Give a brief note on the occurrence of the algae.	**07**
	b	Write a detail note on use of fungus as a biocontrol agent.	**07**