	Enrolln	nent No:	Exam Seat No:		
		C.U.SHAH	I UNIVERSITY		
			xamination-2018		
	Subject Name: Mycology and Phycology Subject Code: 5SC01MAP1 Branch: M.Sc. (Microbiology)				
	Sabject Semeste		Time: 02:30 To 05:30 Marks: 70		
	Ingtwo	Hana.			
i	Instruct		nd any other electronic instrument is prohibited.		
		Instructions written on main answ	•		
		Draw neat diagrams and figures (i			
	(4)	Assume suitable data if needed.			
		SI	ECTION – I		
Q-1		Attempt the Following question	ns	<b>(07)</b>	
		Define heterothallism.			
		Mention the functions of pyrenoi	ds		
	c.	Define dikaryotic mycelium			
	d.	Name of the three phases in sexu Define akinete	al reproduction of fungi		
	e. f.	Agar agar is obtained from			
	g.	Algal partner of the lichen is kno			
<b>Q-2</b>	5•	Attempt all questions	W11 465	(14)	
<b>~</b> –	(a)	Write an account on asexual and	sexual reproduction in Algae.	(7)	
	<b>(b)</b>	Discuss the role of fungi in Biode		<b>(7)</b>	
			OR		
Q-2		Attempt all questions		(14)	
	(a)		ariation found in the members of chlorophyceae	<b>(7)</b>	
		with suitable diagrams.			
	<b>(b)</b>		l four differences between basidiomycetes and	<b>(7</b> )	
		ascomycetes.			
Q-3		Attempt all questions		(14)	
	(a)	Differentiate between the following	•	<b>(7</b> )	
		i) Crustose lichen and frutic			
		<ul><li>ii) Ascospore and basidiospo</li><li>iii) Perithecium and pycnidiu</li></ul>			
		Discuss the role of algae in biofu	ш		



Discuss the life cycle and economic importance of Myxomycete.

Q-3 (a)

**(b)** 

labelled diagram.

OR

Define mycorrhiza. Explain various types of mycorrhiza with the help of a

**(7)** 

**(7)** 

## SECTION – II

	Attempt the Following questions	(07)		
a.	Give any two use of Nostoc			
b.	• Enlist the types of spores in puccinia			
c.	Write the role of heterocyst			
d.	Define eutrophication			
e.	Define somatogamy			
f.	Reserve food material of fungi is			
g.	Baker yeast is			
		(14)		
(a)		<b>(7</b> )		
<b>(b)</b>	Describe telial and pycnidal stage in the life cycle of puccinia graminis vs. tritici	<b>(7)</b>		
	OR			
(a)	What do you understand by quorum sensing? Explain it with reference to fungi	<b>(7</b> )		
<b>(b)</b>	Write a note on mycotoxins. Discuss the harmful effect of mycotoxins.	<b>(7</b> )		
	Attempt all questions	(14)		
(a)		(14)		
(a)	ascomycotina.	(7)		
<b>(b)</b>	Explain the somatic structure and life cycle of Oomycetes.	<b>(7)</b>		
	OR			
	Attempt all Questions			
(a)	What is sex hormone? Describe the role of sex hormone in fungi	<b>(7)</b>		
<b>(b)</b>	What is heterothallism? Describe in brief the heterothallism in fungi	<b>(7</b> )		
	b. c. d. e. f. g. (a) (b) (a) (b)	<ul> <li>b. Enlist the types of spores in puccinia</li> <li>c. Write the role of heterocyst</li> <li>d. Define eutrophication</li> <li>e. Define somatogamy</li> <li>f. Reserve food material of fungi is</li></ul>		

