## C.U.SHAH UNIVERSITY Winter Examination-2018

## Subject Name: Environmental Microbiology

	Subject	Code: 4SC04ENM1	Branch: B.Sc (Microbiolog	y)		
	Semeste	br: 4 Date: 23/10/2018	Time: 10:30 To 01:30	Marks: 70		
	Instructi	ons:				
	(1)	(1) Use of Programmable calculator & any other electronic instrument is prohibited.				
	(2)	(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.				
Q-1		Attempt the following question	15:	(14)		
	a)	Define ecosystem.				
	<b>b</b> )	Define composting.				
	<b>c</b> )	What is dentrification?				
	<b>d</b> )	Define biopesticide.				
	<b>e</b> )	Define lichen.				
	<b>f</b> )	Expand the MPN.				
	<b>g</b> )	Define BOD.				
	<b>h</b> )	What is oxidation pond?				
	i)	Define bioremediation.				
	<b>j</b> )	Define pH.				
	<b>k</b> )	Define ammonification.				
	<b>l</b> )	Define mycorhizza.				
	<b>m</b> )					
	<b>n</b> )	Define symbiotic.				
Atte	mpt any	four questions from Q-2 to Q-8				
Q-2		Write short notes on:		(14)		
	<b>a</b> )	Write a short note on sulphur cyc		(7)		
	b)	Write a short note on soil profile.		(7)		
Q-3	i	Attempt all questions		(14)		
	a)	-	ics of lake with the help of diagram.	(7)		
	b)	Write a note on microbe – anima	l interaction.	(7)		
Q-4		Attempt all questions		(14)		
	a)	Write a note on liquid waste man		(7)		
	b)	Write a note on bioremediation of	of organic matter.	(7)		
Q-5		Attempt all questions		(14)		



	a)	Write a note on solid waste management	(7)
	b)	What is microbial succession? Differentiate between primary and secondary succession.	(7)
Q-6		Attempt all questions	(14)
	a)	Write a note on plant microbe interaction.	(7)
	b)	Write advantages and disadvantages of various methods of bioremediation	(7)
Q-7		Attempt all questions	(14)
	a)	Write a note on aeromicroflora.	(7)
	<b>b</b> )	Define:	(7)
	,	i) Food Chain	
		ii) Trophic level	
		iii) Ecosystem	
		iv) Autecology	
Q-8		Attempt all questions	(14)
<b>C</b>	a)	Write a note biosurfactants.	(7)
	b)	Define:	(7)
	,	i) Predation	
		ii) Parasitism	
		iii) Commensalism	
		iv) Ammensalism	

