Enrollm	ent l	No:	Exam Seat No:	
	circ i	C. U. SHAH	UNIVERSITY mination-2021	
		willter Exa	mmadon-2021	
Subject	Nam	e: Biofertilizers and Biopesticides	3	
Subject	Code	e: 4SC03BAB1	Branch: B.Sc. (Microbiology)	
Semeste	r: 3	Date: 16/12/2021	Time: 02:30 To 04:00 Mark	ks: 35
(2) 1 (3) 1	Use o Instru Draw	of Programmable calculator & any actions written on main answer be neat diagrams and figures (if neame suitable data if needed.	•	i.
Q-1		Attempt the following question	ns:	(7)
	a)		eria that infect the roots of legumes to form	
	L	root nodules. True/False	io Truo/Folso	
	D) C)	Rhizobia are nitrogen-fixing bacter	ociation between a fungus and the roots of a	
	C)	vascular host plant. (symbiotic/non-		
	,	What is PSB?		
		Define: Non symbiotic Nitrogen	Fixers	
	f)	Give examples of N2 fixers		
Attempt	g) : anv	What is biopesticides two questions from Q-2 to Q-5		
rittempt	ully	two questions from Q 2 to Q 3		
Q-2		Attempt all questions		(14)
	a.	What is symbiotic N2 fixation? Characteristics, types, inoculums Rhizobium	Write detail note on Isolation, production and field application, of	(7)
	b.		used as biofertilizers for various crop chemical fertilizers.	(7)
Q-3		Attempt all questions		(14)
~ ~	a.		on? Give detail note on isolation,	(7)
		characteristics, mass inoculums,		
	b.	Give detail note on What do you Explain its role in plant growth.	mean by Phosphate solubilizing bacteria?	(7)
Q-4		Attempt all questions	Line 2 Manaday 1	(14)
	a.	Explain in detail what is mycorr	hizae? Mass inoculum production of	(7)



b. Draw labeled diagram and explain the steps of nitrogen cycle

VAM, field applications VAM

(7)

Q-5		Attempt all questions	(14)
	a.	General account of microbes used as bio insecticides and their	(7)
		advantages over synthetic pesticides	
	b.	What is Bacterial pesticides? Write detail note on mode of action of	(7)
		Bacillus thuringiensis, production with field applications,	

