Enrollment No:		Exam Seat No:		
C II SHAH IINIVERSITV				

Winter Examination-2022

Subject Name: Biofertilizers and Biopesticides

Subject Code: 4SC03BAB1 Branch: B.Sc. (Microbiology)

Semester: 3 Date: 24/11/2022 Time: 11:00 To 12:30 Marks: 35

Instructions:

- (1) Use of Programmable calculator & 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.

Q-1		Attempt the following questions:	(7)
	a)	Define: Biofertilizer	(1)
	b)	Azotobacter is (symbiotic /Non-symbiotic Nitrogen fixer)	(1)
	c)	Full form of VAM.	(1)
	d)	Role of <i>Bacillus thuringiensis</i> .	(1)
	e)	Give examples of N_2 fixer.	(1)
	f)	Give the examples of Biopesticide.	(1)
	g)	What is Bioinsecticide?	(1)
Atte	mpt any	two questions fromQ-2 to Q-5	
Q-2	a. b.	Attempt all questions Write details note on Isolation and characteristics of <i>Rhizobium</i> . Write details note on Phosphate solubilization.	(14) (7)
			(7)
Q-3	a .	Attempt all questions Write a brief note on Mycorrhiza.	(14) (7)
	b.	Give detailed note on Biofertilizer.	(
Q-4		Attempt all questions e details note on symbiotic nitrogen fixation. te the application of Bioinsecticide and its advantage over chemical er.	(14) (7) (7)



Q-5		Attempt all questions	(14)
	a.	Write details note of characteristics of <i>Azotobacter</i> and <i>Azospirillum</i> .	(7)
	b. 7	Write brief note on <i>cyanobacteria</i> and its role in rice cultivation.	(7)

