- 5. Describe in detail about the types of mycorrhizal association. Write a detailed note on influence of VAM on growth and yield of crop plant. (7)
- 6. Discuss in detail about the symbiotic and asymbiotic nitrogen fixation. (7)
- 7. What is vermicomposting? Discuss the process and preparation of vermicompost. (7)

[This question paper contains 4 printed pages.]

2 1 DEC 2022

Your Roll No.....

Sr. No. of Question Paper: 1672

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Unique Paper Code

: 42163302

Name of the Paper

: Biofertilizers

Name of the Course

: Life Sciences

Semester

: III

Duration: 2 Hours

Maximum Marks: 38

Instructions for Candidates

- 1. Write your Roll No. on the top immediately on receipt of this question paper.
- 2. This question paper has 7 questions.
- 3. Attempt 5 questions in all.
- 4. Question No. 1 is compulsory.
- 5. All questions carry equal marks except Q. No 1.
- 6. Answer all parts of a question together.
- Illustrate your answers with suitable diagram wherever necessary.

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1. (a) Fill in the blanks: $(5\times0.5=2.5)$
(i) Biological nitrogen fixation was discovered
by
(ii) The algae has symbiotic association with azolla.
(iii) Mycorrhiza helps plants to absorb
(iv) Vermicast is the of earthworm.
(v) The waste that can be degraded by microorganism are called as
(b) Give the example of the following:
(5×0.5=2.5)
(i) Free living N ₂ fixing biofertilizer
(ii) PGPR
(iii) AM fungi
(iv) Associative symbiotic biofertilzer
(y) Green manure

10/			
	(c) Define the following: (5)	×1=5)	
	(i) Inoculants		
	(ii) Green manure ·	- f .	
	(iii) Curing	87	
	(iv) Algalization		
	(v) Vesicle		
2.	What are major types of bio fertilizers us	ed in	
	agriculture? How are they beneficial over che	mical	
	fertilizers?	(7)	
3.	(a) Discuss the Anabaena- Azolla association.	(3.5)	
	(b) Write an explanatory note on Rhizobium isolation		
	and culture technique.	(3.5)	
4.	Write short notes on any two of the following:-		
	$(3.5 \times 2 = 7)$		
	(a) Organic fertilizers		
	(b) Recycling of industrial waste		