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4

(b) Discuss the significance of VAM as a Biofertilizer.

(5)

5. (a) Describe the Azolla-Anabaena symbiotic association with diagrams. What is its significance in rice cultivation. (10)

(b) In what other ways can Azolla be useful to a farmer? (5)

[This question paper bentains 4 printed pages.

21.12.2023(

Your Roll No ...

Sr. No. of Question Paper : 2369

G

Unique Paper Code

: 2164001002

Name of the Paper

: Biofcrtilizer

Name of the Course

: Common Prog. Group

Generic Elective - Botany

Semester

: I

Duration: 2 Hours

Maximum Marks: 60

Instructions for Candidates

- 1. Write your Roll No. on the top immediately on receipt of this question paper.
- 2. Attempt four questions in all.
- 3. Question No 1 is compulsory.
- 4. All questions carry equal marks.
- 5. All parts of a question must be answered together.

 $(1 \times 5 = 5)$

P.T.O.

(c) Define (any five):

(i) Arbuscles

1. (a) Fill in	the blanks:	(1×5=5)
(i)		at is generally higher in s compared to the leaf
(ii)	AMF can be is	solated from soil with ue.
(iii)	is an initrogen fixer.	example of a free-living
	fixing Cyanobac	non-symbiotic nitrogen teria is ot nodules has a
(b) Match	the following:	(1×5=5)
(a)	Heterocyst	(i) Rhizobium
(b)	Vesicle	(ii) Eisenia fetida
(c)	Root nodule	(iii) Sesbania
(d)	Worm-casts	(iv) Anabaena

(v) Glomus

(e) Green manure

		(ii) bio-compost	
		(iii) leaf manure	
		(iv) growth medium	
		(v) broth culture	
		(vi) Inoculum	
2.	(a)	Describe root nodule formation in legumes	with
		well labelled diagrams.	(10)
	(b)	How is this beneficial to plants and soil?	(5)
3.	(a)	Write short note on packaging, quality check	and
		ISI standard specification for Biofertilizers.	(10)
	(b)	What is the scope of Biofertilizers in India?	
			(5)
4.	(a)	Explain any three types of endomycorrhizae	with
		well labelled diagrams.	(10)