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QP Code: R252H003	Reg.						A'	Y
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GANDHI INSTITUTE OF ENGINEERING AND TECHNOLOGY UNIVERSITY, ODISHA, GUNUPUR (GIET UNIVERSITY)



B. Sc. (Ag.) (Second Semester - Regular) Examinations, July - 2025

24

AC-122- Soil Fertility Management

Time: 2 hrs Maximum: 40 Marks

Time. 2 ms	Maximi	ин. 4 0	Maiks	
Answer ALL questions				
(The figures in the right hand margin indicate marks) PART – A	$(2 \times 5 =$	10 Ma	rks)	
	(2 n c 10 mans)			
Q.1. Answer <i>ALL</i> questions		CO#	Blooms Level	
a. Differentiate between a straight fertiliser and a complex fertiliser.		CO3	K1	
b. What is Hidden hunger?		CO4	K2	
c. Potassium is known as "Quality element". Why?		CO1	K1	
d. Explain Law of Minimum.		CO2	K1	
e. What is a functional element?		CO1	K2	
PART – B	$(6 \times 5 = 30 \text{ Marks})$			
	(0 A 3 –	. 50 IVI	ui Ko)	
Answer ANY SIX of the following questions	Marks	CO#	Blooms Level	
2. What is criteria of essentiality? Provide brief classification of essential nutrients	. 5	CO1	K2	
3. Briefly explain the function and deficiency of the following elements.	5	CO1	K2	
a) Phosphorus				
b) Sulphur				
4. Explain the mechanism of Ion absorption by plants.	5	CO2	K2	
5. Describe the K-cycle and its dynamics in soil plant system with proper sketch.	5	CO2	K2	
6. List down and elaborate the principle and components of INM.	5	CO3	K2	
7. Briefly explain nitrogen loss from soil.	5	CO4	K3	
8. List and describe the various types of nitrogen fertilizers, along with their	r 5	CO4	K2	
characteristics and examples.				
9. Classify chemical fertilizers based on their nutrient content, and provide suitable	e 5	CO3	К3	
examples for each category.				

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