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**Gandhi Institute of Engineering and Technology University, Odisha, Gunupur
(GIET University)**



B. Sc. (Ag.) (Second Semester - Regular) Examinations, May – 2026

AC-122 – Soil Fertility Management

Time: 2 hrs

Maximum: 40 Marks

Answer ALL questions

(The figures in the right hand margin indicate marks)

PART – A

(2 x 5 = 10 Marks)

Q.1. Answer **ALL** questions

	CO #	Blooms Level
a. Criteria of essentiality	CO1	K1
b. Beneficial Nutrient	CO1	K1
c. In situ green manuring	CO5	K1
d. Nitrification	CO3	K1
e. Secondary nutrients	CO2	K1

PART – B

(6 x 5 = 30 Marks)

Answer **ALL** the questions

	Marks	CO #	Blooms Level
2. Explain the Nitrogen Cycle with the help of a well-labelled diagram	5	CO3	K2
3. Write down the mechanism of nutrient movement from soil to plant.	5	CO4	K1
4. Define anaerobic composting. Explain 2 methods of anaerobic composting.	5	CO5	K3
5. Write down the functions and deficiency symptoms of the following nutrients.	5	CO1	K1
a) Potassium			
b) Iron			
6. Write down the properties of any three nitrogenous fertilisers.	5	CO5	K1
7. Explain the methods for application of liquid fertilisers.	5	CO5	K3
8. Differentiate between Manures and fertilizers. Prepare the flow chart of classification of manures.	5	CO4	K4
9. Write down the method of FYM preparation. Briefly describe the factors affecting composition of FYM.	5	CO5	K2

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