



BRAINWARE UNIVERSITY

Library Brainware University 398, Ramkrishnapur Road, Barasal Kolkata, West Bengal-700125

Term End Examination 2024-2025 Programme - B.Sc.(Ag)-Hons-2022 Course Name - Manures, Fertilizers and Soil Fertility Management Course Code - CC-BAG572(T) (Semester V)

Full Marks: 50

Time: 2:0 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 20=20

- 1. Choose the correct alternative from the following:
- (i) How many number of essential elements require for crop growth is? b) 14 c) 15 d) 17 (ii) What is the another name of Potassium chloride? a) SOP b) MOP d) DAP c) SSP (iii) Which one is an explosive nitrogenous fertilizer? b) (NH4)2SO4 a) CAN d) NH4NO3 c) NH3 (iv) In which group N- serve should be placed? b) Urease inhibitor a) Nitrification inhibitor d) Biofertilizer c) Nano fertilizer (v) Select the expiry period for liquid biofertilizer or bioformulation.
 - a) 6 months

b) 8 months

c) 9months

- d) 12 months
- (vi) Who mentioned that Principal nourishment of plant is water?
 - a) Bacon

b) Helmant

c) Liebig

- d) Priestly
- (vii) Which mineral is considered as sole source of P in soil?
 - a) Sylvite

b) Apatite

c) Carnallite

d) Siderite

(viii) Who gave the essentiality of iron (Fe)?

	a) Priestley c) Gris	d) Warington	क्राह्म्याय अस्त्रा benûया समि
(ix)	Which manure has been obtained from sea bird a) Guano	b) Vermicomopst	
(x)	c) FYM Tell the name of biofertilizer which fix nitrogen in	d) Pelophos symbiosis with legume crop).
	a) Rhizobium c) Frankia Who is the father of filed plot technique?	b) Bacillus d) Pseudomonas	
	a) Jenny	b) Gris	
(xii)	 c) Bousingault Tell the name of scientific breeding and rising of 	d) Arnon earthworms.	
	a) Vermiwashc) VermicompostingWhat is the starter material used in urban compo	b) Vermiculture d) Urban composting osting?	
	a) Night soilc) Crop residueSelect the edible oil cake having highest percenta	b) Cow dung d) Straw	
	a) Groundnut c) Linseed	b) Mustard d) Sesame	
	What is them maximum permissible limit of biurda) 1.5	b) 2	
(xvi)	c) 3 Who recommended the Trench method of prepa	d) 4 ring FYM?	
	a) C.N. Acharya c) Jethro Tull What is the guaranteed minimum percentage of	b) C. K. Chesnin d) J.L. Sehgal nutrient (NPK) in a fertilizer (mixture?
	a) Fertilizer ratio c) soil grade	b) Fertilizer gradesd) Fertilizer mixture	
) How much is the nitrogen content of DAP (in per a) 15 c) 18	b) 16 d) 20	
	Which is the nitrogen containing neutral fertilizer a) Urea	·? b) CAN	
	c) NaNO3 Who wrotet the book Soil Fertility: Theory and Pr	d) KCl	
	a) JS Kanwar c) Daniel Hillel	b) DK Das d) A K Saha	
	Group	о-В	
	(Short Answer Typ	e Questions)	2.5 x 10=25
3. E 4. E	explain the Properties of any nitrogenous fertilizer. Explain the importance of organic manure in soil. Explain the role of integrated nutrient management lustrate the factors affecting Phosphorus fixation in		(2.5) (2.5) (2.5)

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6. Explain the different methods of applying fertilizers to soil.7. Explain the concept and mechanisms of a state of the concept and mechanisms of the concept and mechanisms.	(2.5) (2.5)			
 7. Explain the concept and mechanism of nutrient uptake from nano fertilizers. 8. Explain the role of nitrogen in plant growth. 9. Explain the role of nitrogen in plant growth. 	(2.5)			
9. Explain the symptoms occur due to deficiency of nitrogen.	(2.5)			
10. Classify phosphatic fertilizers on the basis of water solubility.	(2.5)			
11. Classify the nitrogen containing fertilizers.	(2.5)			
OP.				
Classify different types of organic manures.				
Group-C				
(Long Answer Type Questions)	5 x 1=5			
12. List out the functions and deficiency symptoms of nitrogen in plant.				
OR				
List out role and deficiency symptoms of zinc in plant.	(5)			
