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Your Roll No.----

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B.Sc.(Prog.) Sem.II Applied Life Science with Agro Chemicals and pest Management.

Paper No.7: Agro Chemicals and Pest Management (Soil and Fertilizer)

Time: 3 Hours

Maximum Marks:75

В

(Write your Roll No. on the top immediately on receipt of this question paper)

INSTRUCTION TO THE EXAMINEE:

Attempt any SIX questions . All questions carry equal marks.

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Q.1.	(a)	Explain, in brief, what do you mean by 'soil separates'? What is the range of their particle size?	6
	(b)	List the components of soil which provide the favorable conditions for plant growth?	4
	(c)	Write the chemical form, in which, the following nutrients are taken up by plants for growth? (i) Nitrogen, (ii) phosphorous (iii) boron (iv) molybdenum (v) sulphur	2½
Q.2.	(a)	Select Primary nutrients, Secondary nutrients and Micronutrients, from the following: Molybdenum, magnesium, potassium, manganese, copper.	21/2

Contd.

	(b)	Explain, in brief, any TWO of the following: (i) Immobilization and mineralization of soil nitrogen	•
		(ii) Denitrification	
		(iii) Losses of nitrogen from soil	5,5
2.3.	(a)	Write a detailed note on superphosphates and ammonium phosphates as fertilizers.	9
	(b)	Explain with suitable examples, what do you understand by residual	
		effect of fertilizers on soil?	31/2
2.4.	(a)	For any of the following THREE nutrients discuss (i) deficiency	
		symptoms (ii) form in which they are taken up by plant (iii) form in	
		which they are available and applied to soil.	
		(i) manganese, (ii) Copper, (iii) Calcium	3½ x 3
		(iv) cobalt and (v)magnesium	
	(b)	What do you understand by liming of soil?	2
			<u> </u>
Q.5.	(a)	Give the classification of nitrogen fertilizers along with suitable	
		examples in each category.	71/2
	(b)	Write an illustrative note on Nitrogen cycle.	5
		cont	<u> </u>
		Conc	

Q.6.	(a)	Explain, in brief, how the soils are formed?	8
	(b)	Calculate, how much N, P, and K are in a 25 kilogram bag of 20-12-5?	41/2
Q.7.	(a)	Write a detailed note on potash fertilizers.	8½
	(b)	What do you mean by 'the bulk and particle densities of soil'?	4
Q.8.	(a)	Write a brief introduction for Biofertilizers.	
V2.00.	(4)	White a other introduction for Dioterthizers.	4
,	(b)	Write a detailed note on Phosphorous solubilizing biofertilizers.	5½
	(c)	Explain, in brief, the advantages of Biofertilizers.	3
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