



KERALA AGRICULTURAL UNIVERSITY B.Sc (Hons.) Agriculture 2016 Admission II Semester Final Examination-August-2017



Ssac.1203

Manures, Fertilizers and Soil Fertility Management (2+1)

Marks: 50 Time: 2 hours

I		Fill up the blanks	(10x1=10)
	1	Liming is recommended for the reclamation ofsoil	(10x1-10)
	2	is a commonly used potassium fertilizer.	. •
	3	Sulphur deficiency results inSymptom.	
	4	Availability of phosphorus in alkaline soil is due to its fixation by	
	5	Mineralis a rich source of phosphorus.	• .
		Non availability of elementin acid soil adversely affects nodu	lation
	6	•	iation.
	7	Plants take up nitrogen mostly inform.	
	8	is an organic chemical fertilizer.	
	9	Rock phosphate is recommended forsoils.	
	10	Sulphate of potash contain% of K	
II		Write short notes on any FIVE	(5x2=10)
	1	Complex fertilizer	
	2	Role of nitrogen in plants	
	3	Mechanisms of nutrient transport	
	4	Plant analysis	•
	5	Nitrification	
	6	Sulphur cycle	
	7	Manufacturing process of urea and ammonium sulphate.	
Ш	•	Answer any FIVE	(5x4=20)
	1	What are the factors affecting nutrient availability in soil?	(= " -)
	2	Explain the soil test crop response approach.	
	3	Describe the fertilizer application schedule under rainfed as well	as irrigated
	,	conditions.	
	4	Explain the principle of active and passive ion transport of nutrients.	
	5	Describe the manufacturing process of single super phosphate.	
	6 .	What are the criteria of essentiality – explain	
	7	Describe the factors affecting NUE.	
IV		Write essay on any ONE	(1x10=10)
	1	Soil amendments to improve productivity.	(3
	· .	A disentages and disadvantages of chemical fertilizers	