

Ш

IV

## KERALA AGRICULTURAL UNIVERSITY

B.Sc. (Hons.) Ag. 2015 Admission V Semester Final Examination-March-2018

Soil Chemistry, Soil Fertility and Nutrient Management (2+1)

Marks: 50

		1 me: 2 nours (10x1=10)
	Fill in the blanks	
1	Gypsum contains % of Ca A soil which has pH <8.5, ESP <15 and EC >4 dSm <sup>-1</sup> at 25°C is called	
2	A soil which has pH <8.3, ESI <15 and ESI	
3	Inherent capacity of soil to supply nutrients in ordered.  The ability of soil resist changes in p <sup>H</sup> is called————  The ability of soil resist changes in p <sup>H</sup> is called———————————————————————————————————	
4	The ability of soil resist changes in positions and important soil organisms bringing ab-	out the conversion of
5	NH <sub>4</sub> to NO <sub>3</sub>	
	State True or False	
6	State True or False  The importance of nitrogen is to increase growth and green colour in plants  The importance of nitrogen is to the deficiency of zinc.	
7	The importance of introgen is to have the importance of introgen in the importance of introgen is to have the importance of introgen in the importance of introduce o	ging about the
8		
	conversion of NH <sub>4</sub> <sup>+</sup> to NO <sub>2</sub> .  The harmful effect of acid soil is due to high osmotic pressure of soil solution.	on
9	The harmful effect of acid son is due to high some	
10	Coconut is a chloride loving crop	
1 2 3 4 5 6	Write Short notes on ANY FIVE of the following Arnon's criteria and different forms of nutrients Gypsum requirement of sodic soil Forms in which plant absorb nutrient elements Differentiate RSC and RSBC Essential and beneficial elements in plant nutrition. Differentiate between antagonism and synergism Different forms of phosphorus	(5x2=10)
7		(5x4=20)
	Answer ANY FIVE of the following	(0.2.1 2)
1		
2	Brief about nitrogen cycle  Discuss on Integrated nutrient management(INM)  Discuss on Integrated nutrient management(INM)	
3	Brief about Indian standards let a standards let	
4	Brief about Indian standard Brief about Indian standard Write note on Mechanism of nutrient uptake  Write note on Mechanism of nutrient uptake  Write note on Mechanism of NIJE) and write about its concepts and fa	ctors influencing
5	Define Nutrient use efficiency (102) and factors affecting availability	
6	Forms of nutrients in soil and nesticides on soil water	•
7	Forms of nutrients in soil and nations described and soil water Brief about effect of fertilizers and pesticides on soil water	
1 2	Write an essay on ANY ONE of the following  Narrate the different concepts for soil fertility evaluation.  What are all the different types of chemical problem soils and its genesis as  **********************************	(1x10=10)  nd management?