KERALA AGRICULTURAL UNIVERSITY

B.Sc Hons (Ag) 2011 Admission
IV th Semester Final Examination- August-2013

Cat. No: Ssac.2204 Title: Fertilizers & Agro	o-chemicals (1+1)	other constituted garylor	Marks: 80 Time: 3 hours
I Answer ALL questions			. (10 x 1 = 10)
1.Amount of urea required a. 220	to apply 100 kg of N b. 460	to rice field is c. 22	d. 46
2. Rock phosphate is conve a. HCl	erted to single superpl b. H ₂ SO ₄	hosphate by adding c. HNO ₃	d.H ₃ PO ₃
3. Sulphate of potash conta a. 50	b. 40 % of I	c. 55	d. 45
Molybdenum availabilit a. Alkaline	y is plenty in b. Neutral	pH c. Acidic	d. Highly acidic
5. Apatites are rich source a. Calcium		c. Zinc	d. Phosphorous
Feldspars and Micas pro a. Nitrogen	b. Phosphorous	to soil c. Potassium	d. Zinc
7. Kelp weeds are used as a	an organic source of p	otassium (True / False)	bising afficial
8. Atrazine is a herbicide re			
9. Constituents in Bordeaux	x mixture are	and	dissign to slow at
10. Toxic principle present		ide is	h notes diesel
II Write short notes on an			
1. Reactions involved in ma	anufacture of urea and	l ammonium sulphate	
2. Integrated Plant Nutrient	System (IPNS)		
B. Define straight and comp	lex fertilizers with su	itable examples	

- 4. Regulations of Fertilizer Control Order
- 5. Botanical pesticides (explain any three)
- 6. Mode of action of atrazine
- 7. Secondary nutrient supplying fertilizers with suitable examples
- 8. Residual toxicities of agro-chemicals
- 9. Chemical structure of organochlorinated pesticides (any two)
- 10. Chelating compounds and micronutrients availability
- 11. Use of rock phosphate in agriculture
- 12. Role of Zinc in crop nutrition

III Write short essays on any SIX of the following

- 1. How can N use efficiency be improved in wetlands?
- 2. Phosphatic fertilizers and their characteristics
- 3. Use of plant growth regulators in agriculture
- 4. Sulfur fungicides synthesis and mode of action
- 5. Management strategies for saline and sodic soils
- 6. Role of organic manures in nutrient management
- 7. Classification of herbicides with suitable examples
- 8. Organic farming in Indian perspectives

Write an essay on any ONE of the following $1 \times 10 = 10$ IV

- 1. Fertilizer application is indispensable to sustain agricultural productivity. Justify with suitable examples
- Write down the classification of insecticides with suitable examples 2. What are insecticides? and their chemical structure.