KERALA AGRICULTURAL UNIVERSITY

B.Sc. (Hons.) Agriculture – 2007 Admission – IVth Semester
Final Examination - July/August 2009

	e: Fertilizers and Agro Chemicals (1+1)	Time : 3 hours
	Fill up the Blanks	10 X 1 = 10
1	Citric acid soluble P is % in steamed b	one meal.
2	Poultry manure is an extremely rich source of	
3	Dolomite, limestone etc. are added in the fertilizer mixture to neutralize the acidity	
4	fertilizer contains 25 percent N, 50% in ammonium form and 50% in nitrate form	
5	Nitric phosphates are manufactured by reacting with RP.	
6	The action of poison is primarily associated with the solubility of the toxicant in tissue lipoids and inhibition of acetylcholine esterase	
7	are a class of materials having hydrophilic properties and promote adhesion of particles in fertilizer formulation.	
8	Cypermethrin is grouped under	
9	is a compound that is capable of killing or severely	
	injuring plants	
10	Aluminium phosphide is a a acute poison for	
Ι	Write short Notes/ Answers (ANY TEN)	10 X 3 = 30
1	Advantages of Rock Phosphate	
2	Electric furnace process of phosphoric acid production	
3	Salt peter	
4	Calcium Carbonate Equivalent	
5	Compound and complex fertilizers	
6	Fumigants	
7	Insecticidal action of pyrethrum	
8	Sulphur fungicides	
9	Desired properties of systemic fungicide	
10	Selectivity of the Herbicidal Action	
11	Diamino-S-Triazine Herbicides	
12	Classification of Rodenticides based on the mode of action	n

III Write short Essays (ANY SIX)

 $6 \times 5 = 30$

- 1 Points to be noted for preparing fertilizer mixture
- 2 Ammonia Volatilization
- 3 Biuret injury
- 4 Reaction of SSP in acid and alkali soils
- 5 Define LD 50 value of pesticides with examples
- 6 Organo chlorinated hydrocarbons
- 7 Characteristic and mode of action of Carbaryl
- 8 Insecticidal action of nicotine

IV Write Essay. on ANY ONE

1 X 10 = 10

- 1 How to compute liming requirement? Name four commonly used liming materials and bring out their neutralizing properties
- 2 What are organophosphate compounds? Explain the characteristics, mode of action and residue management of four OP compounds