Sac.2204

KERALA AGRICULTURAL UNIVERSITY B.Sc (Hons.) Agriculture 2015 & Previous Admissions IV Semester Final Examination-August-2017

Fertilizers and Agro-chemicals (1+1)

Marks: 50

ľ		Answer all Questions	(10x1=10)
	I	Amount of urea required to apply 100 kg of N to rice field is	(
	•	a) 220 b) 460 c) 22 d) 46	•
	2	Rock phosphate is converted to single superphosphate by adding	
		a) HCI b) H_2SO_4 c) HNO_3 d) H_3PO_3	
	3	Sulphate of potash contains % of K	
		a) 50 b) 40 c) 55 d) 45	
	4	Molybdenum availability is plenty in pH	
		a) Alkaline b) Neutral c) Acidic d) Highly acidic	
	5	Apatites are rich source of	
		a) Calcium b) Iron c) Zinc d) Phosphorous	
	6	Feldspars and Micas provide to soil	·
	_	a) Nitrogen b) Phosphorous c) Potassium d) Zinc	
	7	Glyophosate is recommended only for controlling grass weeds. (T/F)	
	8	Atrazine is a broad spectrum herbicide. (T/F)	
	9	Constituents in Bordeaux mixture are and	
	10	Toxic principle present in neem based pesticide is	
IJ		Write short notes on any FIVE	(5x2=10)
	1.	Reactions involved in manufacture of urea and ammonium sulphate.	
	2	Define straight and complex fertilizers with suitable examples.	
	3	Regulations of Fertilizer Control Order.	
	4	Botanical pesticides (explain any three).	
	5	Secondary nutrient supplying fertilizers with suitable examples.	
	6	Residual toxicities of agro-chemicals.	•
	7	Micronutrient mixtures.	
111		Answer any FIVE	(5x4=20)
	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	Synthesis of sulphur fungicides and its mode of action.	
	5	Management strategies to alleviate entry of agrochemicals in food chain	•
	6	Role of organic manures in nutrient management.	

Write essay on any ONE

IV

Liming materials used in acid soils.

(1x10=10)

Fertilizer application is indispensable to sustain agricultural productivity. Justify with suitable examples.

What are insecticides? Classification of insecticides with suitable example sand their chemical structure.
