KERALA AGRICULTURAL UNIVERSITY

B.Sc. (Hons.) Agriculture – 2008 Admission - Ist Semester Final Examination – March/April 2009

Title: Agro 1102 Course: Principles of Agronomy (1+1)		Max. marks: 80 Time: 3 hours
I. Answer the following		20X0.5=10
A. Fill up the blanks		
1) Meaning of 'agros' and 'nomos	are	
2) The main objective of tillage is		
3) is the result of till	age.	
4) is an example i	for edible oil seed.	
5) Castor belongs to		
6) Seeds of some plant species do are said to be	not germinate even under favourable conditions	
7) Plant height increases with incre	ease in plant population due to competition for	
8) The symbiotic bacteria found in	the roots of pulse crop is	
9) is an example of	complex fertilizers.	The same of the same
10) Single super phosphate contain	ns % phosphorus.	
B. Match the following		
1) Cruciferae	Q) Jute	
2) Poaceae	& Cabbage	
3) Tiliaceae	© Sugarcane	
4) Euphorbiaceae	d)Onion	AND THE PERSON
5) Aliaceae	e)Tapioca	
C. State True or False		
1) The N content of urea is 26%.		
2) Agronomy deals with principles		
	tion of sugarcane is ideal for planting.	
4) Dibbling is a method of sowing		
5) Wooden Plough is a primary til	lage implement.	
II. Define the following	1x10=10	
1) Arable crop		
2) Cash crop		
3) Cole crop		
4) Commercial crop		
5) Cover crop		
6) Exhaustive crop		
7) Mulch crop		
8) Energy crop		
9) Truck crop		
10) Ware house crop		

III. Answer the following (ANY TEN)

10X2=20

1) Write a note on the scope of agronomy?

2) Calculate the quantity of single super phosphate needed to apply 75 kg P2O5/ha to maize crop.

3) When nitrogen fertilizers should be applied to the field crops and way?

- 4) List the essential nutrients required for plant growth.
- Mention the important characteristics of good seed.

Differentiate between tilth and tillage.

7) Mention the factors affecting the plant growth.

8) Land leveling is most essential for submerged paddy, why?

- 9) What care should be taken during storage and handling of some of the fertilizers?
- 10) Intercultivation is done in the early stage of plant growth than three stage, Why?
- 11) Mention the advantages of vegetative propagation.

12) Differentiate macro and micro nutrients.

IV. Write short essays on ANY FOUR of the following

4x5 = 20

1) What is tillage? List the objectives of tillage?

2) What are the different methods of sowing? Write the advertiand disadvantages?

3) Plant geometry and its effect on growth and yield.

4) What quantities of urea, single super phosphate and MOP and for applying 120 kg N, 60 kg P₂O₅ and 180 kg potassium to tapioca crop.

5) What are the requirements of an ideal seedbed?.

6) Classify crops based on special purpose and ontogeny/life special

V. Write essays on ANY TWO

2X10=20

1) Green manuring- the concept, advantages, disadvantages and important characteristics of plants suitable for green manuring.

2) What is nitrogen fixation? Give the species of different rhizobla esponsible for nitrogen fixation in different legumes and their potentials

3) Describe the fundamentals principles of agronomy?