

KERALA AGRICULTURAL UNIVERSITY
B.Sc. (Hons.) Agriculture – 2009 Admission
1st Semester Final Examination - March 2010

Cat. No. : Agro 1102

Max. marks: 80

Title : Principles of Agronomy (1+1)

Time : 3 hours

I Fill in the blanks with suitable answers (10x1=10)

1. Based on the Ontogeny (life span) the crops can be classified into _____ , _____ and _____ crops
2. One hectare consists of _____ sq. meters
3. Urea contain _____ nutrient in _____ per cent
4. Plants utilize nitrogen in _____ form
5. The principal seasons of crop growing are _____ , _____ and _____

II Write short notes on the following (Any Ten) (10x3=30)

1. Scope of agronomy
2. Organic manures
3. Planting geometry
4. Integrated nutrient management
5. Photoperiodism
6. Tillage implements
7. Cole crops
8. Biological nitrogen fixation (BNF)
9. Precipitation and crop growth
10. Plant propagation
- 11 Bio-fertilizers
12. Cover crops

III Answer the following questions (Any six) (6x5=30)

1. Distinguish between soil fertility and soil productivity.
2. Define seed. What are the types of seeds? List the characteristics of good quality seeds.
3. What are essential elements? List and classify them.
4. What do you mean by soil tilth? Explain the characteristics of a good soil tilth.
5. Briefly explain different methods of sowing.
6. Define plant growth and list the factors influencing plant growth.
7. Explain the relationship between the plant population and yield. Discuss the concept of optimum plant population and plant growth.
8. Agronomy is an art, science and business. Explain

IV Answer any one of the following (1x10=10)

1. Define tillage. What are its objectives? Discuss the modern concepts of tillage.
OR
2. Explain the agronomic classification of crops with suitable examples.