KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Agriculture Programme – 2011 Admission
Ist Semester Final Examination – February / March 2012

Title : Agro 1102
Course : Principles of Agronomy (1+1)

Marks : 80
Time : 3 Hours

I. Fill up the blanks   (10 x 1 = 10)

1. .... plough is used to break open the subsoil hard pan.
2. Small seeded crops require .... tilth
3. Pattern of distribution of plants over the ground is known as ....
4. Urea contains .... % of N
5. .... is placing of seeds in a hole or pit
6. The book entitled **Principles and Practices of Agronomy** was written by .... and ....
7. Sugarcane is propagated by ....
8. Cotton belongs to .... family
9. Rice is a .... Rooted crop
10. Every plant community has its own minimum, optimum and maximum temperature known as ....

II. Write short notes / answers etc. on ANY TEN   (10 x 3 = 30)

1. Definition and scope of Agronomy
2. Objectives of tillage
3. Characteristics of good quality seeds
4. After cultivation practices
5. Biological and economic yield
6. Optimum plant population
7. Organic manures
8. Harvest index
9. Bio fertilizers
10. Planting geometry
11. Nutrient recycling
12. Vegetative propagation in field crops

III. Explain ANY SIX of the following   (6 x 5 = 30)

1. Modern concept of tillage
2. Yield contributing factors
3. Biological nitrogen fixation
4. Fertilizer management
5. Methods of sowing
6. Classification of crops based on special purpose
7. Factors affecting crop growth
8. Integrated nutrient management

IV. Answer ANY ONE of the following   (1 x 10 = 10)

1. Write in detail about the agronomic classification of crops
2. Explain different methods of application of fertilizers and manures