

**KERALA AGRICULTURAL UNIVERSITY**  
**B.sc (Hons) Ag 2015 Admission**  
**1<sup>st</sup> Semester Final Examination-February -2016**



Cat. No: Agro.1102

Title: Principles of Agronomy (1+1)

Marks: 50.00

Time: 2 hours

**I Define the following**

(10 x 1=10)

1. Agronomy
2. Soil productivity
3. Tillage
4. Harvest index
5. Seed
6. Sowing
7. Fertilizer
8. Drill sowing
9. Intercultivation
10. Plant population

**II Write short notes on any Five questions**

(5 x 2=10)

1. Objectives of tillage
2. Characteristics of good quality seed
3. Seasonal classification of crops with examples
4. Classification of manures
5. How does planting geometry influence crop yield?
6. Recommended dose of nutrients for rice crop is 100:50:50 kg N:P<sub>2</sub>O<sub>5</sub>: K<sub>2</sub>O/ha. Calculate the quantities of urea, single super phosphate and muriate of potash required for three hectares of rice crop.
7. What is intercultivation? Why is it done in the early stages of plant growth

**III Answer any Five questions**

(5 x 4=20)

1. Deficiency symptoms of N,P,K, Mg and S
2. Classification of nitrogen fertilizers
3. Special purpose implements
4. Beneficial effects of FYM on soil
5. Explain the factors that affect crop stand establishment
6. Advantages and disadvantages of broadcasting and dibbling of seeds
7. Integrated nutrient management

**IV Answer any ONE of the following**

(1 x 10=10)

1. Agronomic classification of crops
2. Methods of fertilizer application