# KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Ag. 2012 Admission

V th Semester Final Examination- January/February -2015

Cat. No: Agro.3108 Marks: 80

Title: Cropping Pattern and Farming systems (1+1) Time: 3 hours

**( Answer all questions)** **10 x 1 = 10**

**Fill up the Blanks :**

1. The goat breed suitable for upland IFS is.....
2. Cultivating two or more than two crops of different height simultaneously on a certain piece of land in any certain period is called.....
3. Cultivation of two or more crops simultaneously on the same field in called.....
4. Effect of one component on another which enhances the growth and productivity is called .....
5. Growing trees for timber but with cultivated crops beneath is called .....

**State True or False**

6. Relative yield total and lend equivalent ratio are similar expression
7. IFS is recommended against crop failures
8. The total land area required under sole cropping to give the same yields obtained in the intercropping mixture is called land equivalent ratio
9. The competitive interaction between the intercrops in the time aspect is called temporal annidation
10. Growing agricultural crops with silviculture is known as Agri-horticulture

**10x3 = 30**

**Write Short Notes. ( Any Ten )**

1. Legume effect
2. Contingent crop plan
3. Additive series of planting
4. Income equivalent ratio
5. Multiple cropping
6. Companion cropping
7. Homestead farming
8. Organic recycling
9. Multipurpose tress with examples
10. Relative crowing co-efficient
11. Cropping scheme
12. Land use efficiency

**Write Short Essays ( Any Six Only )** **6 x5 = 30**

1. Sequential cropping and crop rotation with examples
2. Merits and demerits of precision farming in India
3. Multitier cropping
4. Farming system
5. Rice based cropping system
6. Measures for minimizing competition for resources
7. Major plant interactions encountered is cropping system
8. Agro-forestry potential of common tree crops

**Write Essay on any One** **1 x 10 = 10**

1. Discuss in detail about crop planning, crop calendar and cropping scheme preparation with worked out example.
2. Discuss in detail about the criterias for assessing the yield advantage in a cropping system