# KERALA AGRICULTURAL UNIVERSITY

**B.Sc Hons (Ag) 2010 Admission**

**V th Semester Final Examination- January /February -2013**

**Cat. No: Agro.3108** **Marks: 80**

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

**I. Fill up the blanks/ Match the following/ State True or False /Define (10x1=10 marks)**

1. Rice fallow pulse is an example of ---------- cropping system.
2. Growing of crops in between rows of trees is best referred to as ----------
3. Area and duration of cropping are considered for calculating ---------- index.
4. ---------- are called as "Angels of Agriculture".
5. LER equal to one indicates that there is no yield advantage due to intercropping (True / False)
6. Crop + sericulture is successful in dryland condition - True/False
7. Stubbles of previous sorghum crop affect the succeeding crop due to----------
8. Define Cropping pattern
9. Define Agroforestry
10. Define Cropping system

**II. Write short notes/ answers on any TEN of the following (10 X 3 = 30 marks)**

1. Integrated Farming System
2. Sequential Cropping
3. Trap cropping
4. Organic Agriculture
5. Silvo-pastoral system
6. System approach in Crop Production
7. Multi tier cropping
8. Taungya cultivation
9. Sericulture
10. Criteria for selecting Intercrops
11. Cropping scheme
12. Mixed cropping

**III. Write short essays on any SIX of the following (6 x 5 = 30 Marks)**

1. Explain a lowland Integrated Farming System model in 1 ha area
2. Describe the measures to minimize competition for nutrients under cropping systems
3. Explain the Homestead farming in Kerala.
4. Describe Organic recycling in Coconut based cropping systems.
5. Explain the advantages and disadvantages of intercropping.
6. Elaborate the scope of Precision farming in Kerala.
7. Differentiate the following: a. Annidation and Allelopathy
   b. Crop rotation and intensive cropping
8. Classify agroforestry systems and explain briefly with examples.

**IV. Write essay on any ONE (1 x 10 = 10 marks)**

1. Justify Integrated Farming System - a pathway to sustainable agriculture
2. Explain the various indices for assessing yield advantage in cropping systems

****ALL THE BEST ****