



**KERALA AGRICULTURAL UNIVERSITY**  
**B.Sc. (Hons.) Ag. 2015 Admission**  
**V Semester Final Examination-March-2018**

Agro.3108

**Cropping Patterns and Farming Systems (1+1)**

**Marks: 50**

**Time: 2 hours**

**(10x1=10)**

**I Answer the following**

- 1 The scientist who coined the term Harvest Index
- 2 A crop combination with annidation in space
- 3 System of growing two crops in a year in sequence
- 4 The value of Aggressivity when component crops are equally competitive
- 5 An ideal intercrop of tapioca

**Define the following**

- 6 Ley farming
- 7 Silvo-pasture
- 8 Farming system
- 9 Parallel Cropping
- 10 Rotational intensity

**II Write Short notes on ANY FIVE of the following**

**(5x2=10)**

- 1 Social forestry and its objectives
- 2 Principles and advantages of crop rotation
- 3 Ecological basis of intercropping
- 4 Diagrammatically represent the light interception pattern of coconut garden
- 5 Compare and contrast intercropping and mixed cropping
- 6 Principles of Cropping scheme preparation.
- 7 Land equivalent ratio and its application in intercropping systems

**III Answer ANY FIVE of the following**

**(5x4=20)**

- 1 Competition in mixed crop communities and its overall effects
- 2 Integrated Farming Systems and its advantages
- 3 Agroforestry systems and practices
- 4 Organic recycling in cropping systems
- 5 Precision farming
- 6 Coconut based cropping systems
- 7 Allelopathy in crop combinations

**IV Write an essay on ANY ONE of the following**

**(1x10=10)**

- 1 Multiple cropping- objectives, forms, advantages and disadvantages
- 2 Evaluation of cropping systems

\*\*\*\*\*