

# KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Ag. 2012 Admission

VI<sup>th</sup> Semester Final Examination- July /August -2015

Cat. No: Agro.3209

Marks: 80

Title: Sustainable Agriculture and Organic Farming (1+1)

Time: 3 hours

## I. Answer the following (10x 1= 10)

1. LEISA denotes \_\_\_\_\_
2. Example of a bio herbicide is \_\_\_\_\_
3. Quantity of water required to produce 1 ton of husked rice is \_\_\_\_\_
4. The term organic was coined by \_\_\_\_\_
5. Human health is tied to the health of \_\_\_\_\_
6. \_\_\_\_\_ is the logo for organically certified products in India.
7. Ammonium Sulphate is a strong biocide (True/False)
8. Super phosphate have positive effect on free living N fixing bacteria(True/False)
9. Urea acidifies quickly leading to high level of toxic soluble aluminium in soil(True/False)
10. An example for one promising LEISA technique

## II. Write short notes on any 10 (10x3=30)

1. Strip Cropping
2. Tied ridging
3. In-situ and ex-situ water harvesting
4. Differentiate LEIA and LEISA
5. Homa Farming
6. Agencies involved in organic farming
7. Agro biodiversity
8. Legume effect
9. Good agricultural practices.
10. Enhancing sustainability of dry land and irrigated agriculture.
11. Phytoremediation
12. Constraints in organic farming

### III. Write short essays on any six of the following (6x5=30)

1. Operational mechanism of National Standards for organic products
2. Conventional Vs. sustainable agriculture.
3. Factors affecting ecological balance.
4. Causes for soil degradation and measures for management.
5. Tools and practices of organic farming.
6. Alternate agricultural systems.
7. Biofertilizers in organic farming.
8. Strategies for realizing sustainable agriculture.

### IV. Write essay on any one (1x10=10)

1. Components of sustainable agriculture.
2. The concept of sustainability and sustainable development; emerging issues.