

# KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Ag. 2011 Admission

VI<sup>th</sup> Semester Final Examination- July/August-2014

Cat. No: Agro.3209

Marks: 80

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

Time: 3 hours

I) Fill up the blanks/Choose Correct Answer /State True or False

(10 x 1=10)

1. The father of Modern Agriculture is \_\_\_\_\_
2. Farming which is biologically organic and ecologically sound and sustainable farming is known as \_\_\_\_\_
3. AIFO is \_\_\_\_\_
4. The "One straw revolution" book was released by Masanobu Fukuoka(T/F)
5. Organic farming yields lower than conventional type of farming(T/F)
6. The area under organic farming in foreign countries is more than our country(T/F)
7. The point source of water pollution is
  - a) Acid deposition
  - b) Runoff of fertilizers
  - c) Factories
8. The organic carbon content is reduced in
  - a) Mould board ploughing
  - b) Chisel ploughing
  - c) No tillage
9. One tonne of FYM contains
  - a) 2.95, 1.59 and 2.95 kg of NPK
  - b) 1.59, 0.79 and 1.59 kg of NPK
  - c) 2.4, 1.35 and 2.15 kg of NPK
10. Amelioration in sodic soils
  - a) *Sesbania aculeata*
  - b) *Sesbania rostrata*
  - c) *Crotalaria juncea*

II Write short notes on ANY TEN

(10 x 3=30)

1. Soil Conservation in organic farming
2. In situ and exsitu water harvesting
3. Basic principles of sustainable agriculture
4. Different type of biodiversity measurements
5. Good agriculture practices
6. Reclamation of problem soils under organic farming
7. Types of organics with suitable examples
8. Bio remediation and sources of bio remediation
9. Stale seed bed technique
10. Biodynamic farming
11. Resources recycling
12. NPOP

**III Write short essays on ANY SIX of the following**

**(6 x5=30)**

1. Discuss the importance of green manuring
2. Give an account on organic certification ,marketing and export avenues
3. Mention the economic indices followed in organic farms
4. Write down the causes of soil degradation and measures for management
5. Discuss the economic evaluation of organic agricultural technologies
6. Explain the different approaches for control of pests and diseases under organic 1 with suitable examples
7. Discuss about Low vs. high external input agriculture (LEIA vs HEIA)
8. Discuss about the components of sustainable agriculture

**IV Write essay on ANY ONE**

**(1 x10=10)**

1. Give a lucid account on prospects and constraints of organic farming
2. Define Integrated Farming System (IFS).Explain its uses and how the resource recycled for better production under different ecosystems

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