

KERALA AGRICULTURAL UNIVERSITY
B.Sc.(Hons.) Agriculture – 2007 Admission – VIth Semester
Final Examination – June - July 2010

Cat. No. : Agro 3209

Max. marks: 80

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

Time : 3 hours

I. Answer any TEN questions only

10 x 1 = 10

i. Fill up the blanks

1. _____ is called as Green Umbrella
2. The Organic soils have _____ of organic matter
3. Expand : NBPGR _____

ii. True or False

4. IFOAM is placed at Germany
5. If annual per capita water availability is Below 1700 m³ - Region is termed Water Stressed
6. The non renewable resources include the fossil fuels like coal, oil and natural gas.

iii. Choose the correct answer

7. The soil slaking is referred as
a) Aggregate stability b) Liming of soil c) addition of slakes in soil
8. The Associative symbion is _____
a) *Azospirillum* b) *Azolla* c) *Rhizobium*
9. Green house gas
a) H₂ b) O₂ c) CO₂
10. Organically grown products are _____ in quality
a) Not superior b) Inferior c) Superior

II. Write short notes on ANY TEN

10 X 3 = 30

1. Narrate the different sustainable indices
2. List out the agencies involved in organic farming

3. What is the factor used for conversion of organic carbon to organic matter? Why?
4. Explain serial dilution and plating method?
5. Natural farming
6. Hints for composting agricultural wastes.
7. How Vermicomposting is done?
8. Legume effect
9. Biodiversity
10. Phytoremediation
11. Constraints of organic farming
12. Good Agricultural Practices

III. Write short essays on ANY SIX of the following

6 X 5 = 30

1. Factors affecting sustainable agriculture
2. Discuss about operational structure of NPOP
3. National Standards for Organic Products
4. Discuss about ecological agriculture
5. Role of Soil organic carbon in organic farming
6. Narrate the importance of green manure
7. Define bio – diversity. Discuss its importance and conservation strategies
8. What is ITK? Discuss the importance of ITKs in Indian Agriculture.

IV. Write essay on ANY ONE

1 X 10 = 10

1. Justify the following
 - a. Organic Foods are Costlier?
 - b. Organic Foods are Healthier?
 - c. Organic Foods are Nutritious?
2. What are the effects of residues on soil fertility? And list out the effect of crop residues on soil management