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# KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Ag. 2013 Admission

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

Cat. No: Ssac.2204

Title: Fertilizers and Agro Chemicals (1+1)

Marks: 50

Time: 2 hours

(10 x 1=10)

## I Fill up the blanks

1. The central fertilizer Quality Control and Training Institute is at \_\_\_\_\_
2. The procedure which determines all types of moisture in a fertilizer \_\_\_\_\_
3. Basic slag is obtained as a by product from \_\_\_\_\_ industry
4. \_\_\_\_\_ is a systemic fungicide of low water solubility applied to soil
5. The copper content of fungicide can be estimated by \_\_\_\_\_ type of titration
6. The stability of a phosphate rock is mainly due to its \_\_\_\_\_ content
7. The Fertilizer (Control) order came into force in India in \_\_\_\_\_
8. The amendment used to reclaim alkali soil \_\_\_\_\_
9. A potassic fertilizer recommended for potato is \_\_\_\_\_
10. Chemical name of fytolan is \_\_\_\_\_

(5 x 2=10)

## II Write short notes on any FIVE

1. Complex fertilizers
2. Fate of ammonium sulphate fertilizer in soil
3. Balance fertilization
4. Neem based botanical pesticides
5. Classification of fertilizers based on residual action in soil
6. Fertilizer fillers
7. Coated urea fertilizers

(5 x 4=20)

## III Write short notes on any FIVE

1. Intercompatibility of fertilizers
2. Industrial by products as sources of plant nutrients
3. Methods for increasing the use efficiency of fertilizers
4. Common liming materials and factors influencing their quality
5. The fertilizer (control) order and its implications
6. Integrated nutrient management
7. Secondary nutrient fertilizers

**IV Write essay on ANY ONE**

**(1 x 10=10)**

1. Explain the major mechanism of degradation of pesticides in soil and plant. what is the relevance of metabolism and role of micro organisms in pesticide degradation
2. Explain the chemistry ,uses, properties and mode of action of urea and phenyl urea based herbicides