

KERALA AGRICULTURAL UNIVERSITY

B.Sc.Hons (Ag) Degree Programme 2014 Admission
IVth Semester Final examination – August- 2016

Cat. No: Ssac 2204

Marks: 50.00

Title: Fertilizers and Agrochemicals (1+1)

Time: 2 hours

I Fill in the blanks

(10 x 1=10)

1. The feed stocks used in production of Ammonia are _____ and _____
2. _____ is a nitrification inhibitor and _____ is a urease inhibitor.
3. _____ is the most widely used N fertilizer in India and _____ is the K fertilizer.
4. The total quantity of fertilizer consumption in India as per recent statistics is _____ lakh tones of which N fertilizers _____ lakh tones.
5. Cyper methrin comes under _____ group and BHC comes under _____

Match the following

- | | |
|---------------------------|-------------------------------|
| 6. Urea | a) Water soluble P fertilizer |
| 7. Ox amide | b) Complex fertilizer |
| 8. Single Super Phosphate | c) Carbamate |
| 9. Factomphos | d) Slow Release N fertilizer |
| 10. Sevin | e) Liming material |
| | f) Amide fertiliser |

II Write short notes on any five questions

(5 x 2= 10)

1. Fertilizer control Order and insecticide Act.
2. Equivalent acidity/basicity of fertilizers.
3. Liming materials and Neutralising value of liming materials.
4. Potassic fertilizers and their preparations.
5. LD 50 and LC 50 value in relation to toxicity.
6. Chronic poison and acute poison with examples.
7. Mode of action of OP compounds.

III Write short Essays on any Five questions

(5 x 4=20)

1. Classification of N fertilizers with One example each.
2. Manufacturing process of Ammonium Sulphate.
3. Explain the manufacturing process of SSP and TSP.
4. Detoxification of pesticides in plants and in soil.
5. Discuss the structure of carbmates and explain the insecticidal properties and fungicidal properties with examples.
6. A brief note on botanical insecticides.
7. Classification of insecticides based on mode of action.

IV Write essay on Any ONE

(1 x 10=10)

1. Explain the Industrial manufacturing process of Urea starting from Ammonia synthesis.
Discuss its suitability in various soil situations with suggestions to increase use efficiency.
2. Classification of Pesticides with their chemical nature and examples.
