# KERALA AGRICULTURAL UNIVERSITY

**B.Sc.Hons (Ag) Degree Programme 2014 Admission**
**IV$^{th}$ 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.