KERALA AGRICULTURAL UNIVERSITY
B.Sc.(Hons.) Ag.
One-Time Re-examination- April -2018
2014 Admission VII Semester
Fertilizers and Agrochemicals (1+1)

Marks: 50
Time: 2 hours
(10x1=10)

I

Fill in the blanks
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. ------------- is an amide form of N fertilizer
5. Cyper methrin comes under -------- group and BHC comes under ----------
6. Toxic principle present in neem based pesticide is-------------------
7. Constituents in Bordeaux mixture are ---------- and ----------------
8. Rock phosphate is converted to single super phosphate by adding ---------------

State True or False
9. Kelp weeds are used as an organic source of potassium
10. Atrazine is a herbicide recommended for maize and sugarcane

II

Write Short notes on ANY FIVE of the following (5x2=10)
1. Fertiliser control Order and insecticide Act
2. Liming materials and Neutralising value of liming materials
3. Transformation of urea applied to upland soils
4. LD50 and LC50 value in relation to toxicity
5. Chronic poison and acute poison with examples
6. Mode of action of OP compounds
7. Nicotine and neonicotinoids

III

Answer ANY FIVE of the following (5x4=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. Classification of insecticides based on mode of action
5. Detoxification of pesticides in plants and in soil
6. Discuss the structure of carbamates and explain the insecticidal properties and fungicidal properties with examples
7. A brief note on botanical insecticides.

IV

Write an essay on ANY ONE of the following (1x10=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

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