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(Knowledge for Development)

KIBABII UNIVERSITY
UNIVERSITY EXAMINATIONS
2019/2020 ACADEMIC YEAR

FOURTH YEAR 2ND SEMESTER
SPECIAL/SUPPLEMENTARY EXAMINATION

**FOR THE DEGREE OF BACHELOR OF SCIENCE AGRICULTURE AND
BIOTECHNOLOGY & BACHELOR OF SCIENCE AGRICULTURE
ECONOMICS AND RESOURCE MANAGEMENT**

COURSE CODE: SAB 410
**COURSE TITLE: FERTILIZER MANUFACTURE AND
FORMULATION**

DATE: 02/02/2021.

TIME: 11-1PM.

INSTRUCTIONS TO CANDIDATES

Answer Question ONE and any other TWO Questions.

TIME: 2 Hours

This paper consists of 2 printed pages. Please Turn Over



KIBU observes ZERO tolerance to examination cheating

1. a) Define the following terms:

- i) Animal Slurry (2 Marks)
- ii) Urban Compost (2 Marks)
- iii) Incomplete Fertilizers (2 Marks)
- iv) Limited Compatibility Ingredients (2 Marks)
- v) Endomycorrhizae (2 Marks)

b) Francisca is a farmer preparing FYM. Describe how she can minimize losses of nutrient on her FYM. (14 Marks)

c) Describe the sources of Elemental Sulfur in the manufacture of Sulfuric Acid (6 Marks)

2. Using equations describe the reaction of Phosphate Fertilizer in the soil. (20 marks)

3. a) Discuss various methods of mining Potash. (10 Marks)

b) Explain factors to take into consideration when selecting a site to put up a fertilizer blending factory (10 Marks)

4. Describe the manufacture of Phosphate fertilizer. (20 Marks)

5. a) State and explain the characteristics of ideal green manure crop. (16 Marks)

b) State the Rhizobium bacteria that nodulates the following legume crops

- Sweet Clover
- Chicken pea
- Alfalfa
- Common beans.

(4 Marks)