

**UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**P.O. Box 972-60200 – Meru-Kenya.**

**Tel: 020-2069349, 061-2309217. 064-30320 Cell phone: +254 712524293, +254 789151411**

**Fax: 064-30321**

**Website:** [**www.mucst.ac.ke**](http://www.mucst.ac.ke) **Email:** [**info@mucst.ac.ke**](mailto:info@mucst.ac.ke)

**University Examinations 2014/2015**

THIRD YEAR, FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN CROP PROTECTION

**SBT 2350: AGRICULTURAL BOTANY**

**DATE: APRIL 2015 TIME: 2 HOURS**

**INSTRUCTIONS:** *Answer question* ***one*** *and any other* ***two*** *questions*

**QUESTION ONE (30 MARKS)**

1. Explain the meaning of the following terms as used in agricultural botany
2. Selection (2 marks)
3. Domestication (2 marks)
4. Distinguish between protandry and protogony (3 marks)
5. State three differences between domesticated and wild plant species (3 marks)
6. Describe briefly and illustrate the structure of the flower (4 marks)
7. Explain briefly gametopytic self incompatibility (3 marks)
8. State the significance of male sterility (3 marks)
9. Distinguish between relay intercropping and mixed intercropping (3 marks)
10. State the advantages of pure line breeding (3 marks)
11. Explain the significance of post-harvest systems (4 marks)

**QUESTION TWO (20 MARKS)**

Discuss with aid of illustrations, the mechanisms that favour cross pollination

**QUESTION THREE (20 MARKS)**

Describe in details three main processes responsible for generating variability

**QUESTION FOUR (20 MARKS**

Analyse various measures Kenya as a Country can take to maximize on crop harvest