



# KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2010/2011

INSTITUTE OF OPEN LEARNING (IOL)

EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE AND  
BACHELOR OF EDUCATION

**SBT 421: PLANT BREEDING**

DATE: Wednesday, 2<sup>nd</sup> February, 2011

TIME: 4.30 p.m. – 6.30 p.m.

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## **INSTRUCTIONS:**

Answer **ALL** questions in **Section A** and **ONE** question in **Section B**.

Answer in Section A should be written in the **spaces provided** on the question paper/

**SECTION A:** Short Answer questions (5 Marks Each)

1. Discuss five main factors to consider when choosing a plant breeding method.



4. Discuss five methods of emasculation.

5. Explain giving examples the meaning of the following terms in plant breeding:

a) Enantiostyly

b) Apogamy

c) Gene for gene relationship

d) Geitonogamy

e) Male sterility

6. Briefly discuss crop Genetic Resources.

7. Discuss patterns of evolution of crop plants

8. Explain five mechanisms that encourage allogamy.

**SECTION B: ESSAY QUESTION**

Answer any **ONE** question (30 marks)

1. Discuss five common breeding methods.
2. Discuss incompatibility systems in crop plants.
3. Write an essay on the mechanisms of plant reproduction and its significance to plant breeding.