



MASEÑO UNIVERSITY
UNIVERSITY EXAMINATIONS 2016/2017

**FIRST YEAR FIRST SEMESTER EXAMINATIONS FOR
THE DEGREE OF MASTER OF SCIENCE IN PLANT
BREEDING**

MAIN CAMPUS

**AAG 821: ADVANCED SEED SCIENCE AND
TECHNOLOGY**

Date: 13th April, 2017

Time: 9.00 - 12.00 noon

INSTRUCTIONS:

- Attempt ALL questions.

AAG 821: ADVANCED SEED SCIENCE AND TECHNOLOGY

INSTRUCTIONS: ATTEMPT ALL QUESTIONS

TIME: 3 HOURS

DATE:

TOTAL MARKS 60

1. Explain in details, with relevant examples, why it would be preferred to carry out asexual as opposed to sexual propagation. (10 marks)
2. With illustrations, where relevant, elucidate Angiosperm seed origin, development to maturation. (15 marks)
3. Discuss in detail the process of seed germination in flowering plants. (8 marks)
4. Account for the theories that are associated with germination in plant seeds (7 marks)
5. Dormancy and viability are common phenomena in plant seeds and buds. Discuss this statement with relevant examples. (8 marks)
6. Account in detail, the process of seed testing and certification in the seed industry in Kenya (7 marks)
7. More often scientists support the introduction and commercialization of genetically modified crops but there is a lot of resistance from the politicians. It is however, a well known fact that a lot of such products are available in the shelves of super markets, discuss for or against such products. (5 marks)