



**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY
(MMUST)**

MAIN CAMPUS

**UNIVERSITY EXAMINATIONS
2023/2024 ACADEMIC YEAR**

**FIRST YEAR SECOND SEMESTER EXAMINATIONS
FOR THE DEGREE OF MSC. PLANT BREEDING**

COURSE CODE: APB 811

COURSE TITLE: ADVANCED PLANT BREEDING

DATE: 22.04.2024

TIME: 8-10AM

INSTRUCTIONS TO CANDIDATES
ANSWER any THREE questions

1. Discuss, with examples, the five major types of cultivars (20 marks)
2. Discuss the major traits that have been improved through plant breeding (20 marks)
3. (a) As a plant reader, discuss the concept of inbreeding and outbreeding (10 marks)
(b) Explain factors that determine if a given species is inbreeding or outbreeding (10 marks)
4. Discuss, using examples, the major genomics tools used in plant breeding (20 marks)
5. As an upcoming plant breeder, discuss the major laws and statues governing breeding in Kenya (10 marks)
6. Explain the concept of DUS and VCU (10 marks)