ACR 407



(University of Choice)

## MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY

## UNIVERSITY EXAMINATIONS 2022/2023 ACADEMIC YEAR

# FOURTH YEAR SECOND SEMESTER EXAMINATIONS FOR THE DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURE & BIOTECHNOLOGY

COURSE CODE: ACR 407

COURSE TITLE: SEED SCIENCE AND TECHNOLOGY

DATE: 24.04.2023 TIME: 12-2PM

#### **INSTRUCTION TO CANDIDATES**

Answer ALL Question in Section A and any other Two Questions from section B

MMUST observes ZERO tolerance to examination cheating

This paper consists of TWO (2) printed pages. Please turnover

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### SECTION A: ANSWER ALL QUESTIONS (40 MARKS)

Q1	Define the following terms as normally used in seed science and technology studies	
ė	a company	(10 marks)
	(a) Seed Technology	
	(b) Seed certification	
	(c) Seed quality	
	(d) Genetic purity	
	(e) Isolation distance	
Q2	(a) State the objectives of seed testing and explain common seed quality asse	essment tests
	that are used to meet each of the objectives given	(10 marks)
	(b) Define the term seed treatment and write comprehensive notes on the imp	oortance of
	seed treatment in seed technology	(10 marks
Q3.	(a) Give five advantages of efficient seed drying	(5 marks
	(b) Explain the factors that may influence the rate of seed drying	(5 marks)
SECT	TION B: ANSWER ANY TWO QUESTIONS (30 MARKS)	
Q4.	Describe the procedure for maize seed certification employed in Kenya hi	ghlighting
	the various requirements for the process	(15 marks)
Q5.	Discuss the plant breeder's rights as provided for in the Seeds and Plant V	arieties Act
	CAP 326 of the Laws of Kenya	(15 marks)
Q6.	Discuss the challenges encountered by certified seed marketers and users in	n Kenya
		(15 marks)