DAG/DAH 052



University of choice

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

SCHOOL OF AGRICULTURE, VETERINARY SCIENCES AND TECHNOLOGY (SAVET)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS 2023/2024 ACADEMIC YEAR MAIN EXAMS FOR DIPLOMA IN GENERAL AGRICULTURE, HORTICULTURE

COURSE CODE: DAG/DAH 052

COURSE TITLE: AGRICULTURAL BOTANY

DATE: 13.12.23

TIME: 8-10AM

INSTRUCTIONS TO CANDIDATES

This paper is divided into two sections, A and B. Answer ALL Questions in SECTION A and any Two in SECTION B

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	SE	CTION A (40 MARKS) Answer all questions	
	1.	Explain briefly how you have contributed to minimizing climate change.	[5 marks]
	2.	W. i. d. C. II.	[2 marks]
		a. SDGs	
		b. ICBN	
	3.	What is the significance of agricultural botany in the context of global food security?	[5 marks]
	4.	Using dichotomous keys, classify the following fruits.	
		Kiwi (Actinidia deliciosa), Mango (Mangifera indica), Tomato (Solanum lyc	copersicum)
		Orange (Citrus sinensis)	[7 marks]
	5.	State the function of the following tissues found in leaves.	[3 marks]
		a. Epidermis	
		b. Vascular bundles	****
	6.	Illustrate a well labelled open stomata.	[5 marks]
	7.	How does man benefit from photosynthesis?	[5 marks]
. 8	8.	Give one example for each of the following:	[3 marks]
		i. Dehiscent fruit	
		ii. Indehiscent fruit	
		iii. Fleshy fruit	
	 9.	A gardener's favorite crop died several days after she applied twice the recommended fertilizer. What probably happened in terms of plant-water relations?	amount of [5 marks]
	SE	CTION B (30 MARKS) Answer any TWO questions	* \$20
	10.	Explain the diverse functions and adaptations of plant roots, highlighting the various to	ypes of roots
- *		and their modifications. Provide specific examples of plants and root structures that ill	ustrate these
		adaptations.	[15 marks]
	11	a. Describe the different floral parts and their roles in the reproductive process.	[10 marks]
		b. Define transpiration and state why it is vital for plants.	[5 marks]
	12	a. Explain why it is important to accurately identify plants.	[10 marks]
		b. Differentiate primary growth and secondary growth.	[5 marks]