



(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS 2019/2020 ACADEMIC YEAR

THIRD YEAR 1ST SEMESTER SPECIAL/SUPPLEMENTARY EXAMINATION

FOR THE DEGREE OF BACHELOR OF SCIENCE AGRICULTURE AND **BIOTECHNOLOGY**

COURSE CODE:

SAB 333

COURSE TITLE:

CROP PHYSIOLOGY

TIME: 2-4PM

INSTRUCTIONS TO CANDIDATES

Answer Questions ONE and ANY other TWO Questions.

TIME: 2 Hours

This paper consists of 2 printed pages. Please Turn Over



KIBU observes ZERO tolerance to examination cheating

1.	 (a) Differentiate between Ca and Mg deficiency symptoms in plants (b) Explain why the difference in (a) occurs (c) Identify two methods of evaluating the nutrient requirements of plants (d) State Five feature that inflavore the deficiency symptoms in plants 	(4 marks) (4 marks) (2 marks)
	(d) State five factors that influence the chemical composition of plants	(5 marks)
	(e) Identify five types of tropisms in plants	(5 marks)
	(f) Differentiate between the following:	
	(i) Potential and reference evapotranspiration	(6 marks)
	(ii) Explain how the relationship between the soil-plant-atmosphere affects	
	plant water loss and uptake	(4 marks)
2.	Exhaustively discuss the factors that may influence flowering in Saccharus	m species (20 marks)
3.	Identify nine (9) essential microelements in plants and clearly explain the major role	
	played by each in plant growth and development	(20 marks)
4.	Describe the modifications that can be made to the meteorological factors	to influence
	plant physiological processes and crop yield	(20 marks)
5.	Explain the role of crop physiology in expanding crop yields	(20 marks)