

## UNIVERSITY EXAMINATIONS 2022/2023 ACADEMIC YEAR

## SECOND YEAR SECOND SEMESTER SPECIAL/SUPPLEMENTARY EXAMINATION

FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIOLOGY

**COURSE CODE:** 

**SBT 222** 

COURSE TITLE:

PLANT STRUCTURE AND FUNCTION

DATE:

10TH AUGUST 2023

TIME: 11.00 AM

## INSTRUCTIONS TO CANDIDATES

Answer Question one (1) and any other two (2) Questions. Question one is compulsory and carries 30 marks, the other Questions carry 20 marks each.

TIME: 2 Hours

Q1	(i)	Distinguish prokaryotic and Eukaryotic cells	(5 marks)	
	(ii) (iii) (iv)	Enumerate the functions of a plant cell wall Briefly explain the function of roots and stems in plants What are the differences between xylem and phloem vess	(5 marks (5 marks)	
			(5 marks)	
	(v)	Compare and contrast Meristematic and Permanent tissue	(5 marks)	
	(vi)	What are the advantages and disadvantages of vegetative	(5 Marks)	
Q2	Di	reproduction scuss the mechanisms by which water moves in higher pla		
Q2	Di	seass the meenaments by which water meves in ingree pro	(20 marks)	
Q3	De	Describe the types of vascular bundles found in higher plants (20 marks)		
Q4	Name at least five different deficiency symptoms in plants. Describe them and correlate them with the concerned mineral deficiency.			
			(20 marks)	
Q5	Wi	ith the aid of a diagram, describe the dicotyledon leaf struc	eture (20 marks)	