CHUKA



UNIVERSITY

## UNIVERSITY EXAMINATIONS

## EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF EDUCATION (SCIENCE) BACHELOR OF SCIENCE BIOLOGY

## BOTA 322: PLANT GROWTH AND DEVELOPMENT

STRI	EAMS:	TIME: 2 HOURS
DAY/DATE: WEDNESDAY 11/12/2019		2.30 P.M – 4.30 P.M
INSTRUCTIONS Answer all questions in section A and any TWO in section B		
SEC	ΓΙΟΝ Α	
1.	Explain the differences between growth and development in plants	s. [3 marks]
2.	(a) Describe the process of fertilization in plants.	[3 marks]
	(b) Explain importance of fertilization in plants.	[2 marks]
3.	Using a well labeled diagram illustrate the longitudinal section of the root tip of a dicot	
	plant.	[5 marks]
4.	Differentiate between primary and secondary growth in plants.	[4 marks]
5.	(a) Describe the characteristics of juvenility in plants.	[3 marks]
	(b) Describe the commercial importance of juvenility in plants.	[2 marks]
6.	Describe the factors that influence senescence in plants.	[4 marks]
7.	Describe the application of any two plant hormones of economic in	mportance. [4 marks]
SECTION B		

## Describe the stages of embryo development in plants . [20 marks] Discuss a sexual reproduction in plants. [20 marks] (a) Discuss the factors that stimulate flower formation in plants. [10 marks] (b) Describe the steps followed during plant tissue culture. [10 marks]