Uganda Marcyrs University

Faculty of Agriculture

B. Agriculture I Semester I Final Exams: 2018/2019 Course Unit: CRE 1102: Plant Anatomy and Physiology

Time: 09:30 am - 12:30 pm

Date: Thursday, 6th December, 2018

Instructions:

- Answer any FOUR Questions
- ii. Each question is 25 marks
- Do not write anything on a question paper iii.
- iν. Time: Three hours

1	 a) Explain the different mechanisms favouring allogamy 	15 marks
	b) Discuss the different adaptations of plants to drought stress	10 marks
2	Explain the properties of water which make it a very important	25 marks
	component in different plant physiological processes	
3	a)Using a suitable illustration, describe the different components of	15 marks
	the internal leaf structure	
	b) Elaborate on thethree growth phases of meristematic cells	10 marks
4	Discuss the different types of allochory	25 marks
5	Contrast the following terminologies	
	a) Guttation vs Transpiration	05 marks
	b) Light dependent reactions vs Light independent reactions	05 marks
	c) Preparatory phase vs Pay off phase of glycolysis	05 marks
	d) Chilling injury vs Frost injury	05 marks
	e) Physiological dormancy vs Morphological dormancy	05 marks
6	Describe the different methods of artificial vegetative propagation	25 marks
7	a) With appropriate illustrations, explain the relations between	15 marks
	osmosis and tonicity	
	b) What are the different types of plant cells?	10 marks
3	Discuss the different rules of binomial nomenclature	25 marks