Uganda Martyrs University

Faculty of Agriculture

B. Agriculture 1, Semester I Final Assessment: 2014/2015 Course Unit: Plant Anatomy and Physiology

> Time: 9:30 am - 12:30 pm Date: Wednesday, 10th December, 2014

Instructions:

Answer any four questions

Do not write anything on a question paper

Time: Three hours

1	Using a suitable illustration, describe the preparatory and pay-off phases	25 marks
	of glycolysis	
2	Discuss leaf/leaflet arrangement on the petiole	25 marks
3	Describe five metabolic compounds produced by a plant	25 marks
4	Write short notes on the following terms as used in plant physiology	
a)	Nyctinastic movements	5 marks
b)	Epinastic movements	5 marks
c)	Plant hormones	5 marks
d)	Parenchyma cells	5 marks
e)	Sclerenchyma cells	5 marks
5	Describe the external root structure of a plant	25 marks
6	Explain the different types of subterranean stems	25 marks
7	Discuss the different modifications of leaves to their environment	25 marks
8 a)	Describe the light dependent reactions of photosynthesis	15 marks
b)	Explain the process of chemiosmosis in plants	10 marks