University Examinations 2015/2016

<u>SECOND</u> YEAR <u>SECOND SEMESTER</u> MAIN EXAMINATIONS FOR THE DEGREE OF BACHELOR OF SCIENCE

FORESTRY AGROPORESTRY

FOR 224: PLANT STRUCTURE AND FUNCTION

TIME: 3 HOURS

INSTRUCTIONS TO CANDIDATES: Answer ALL questions in Section A and any TWO questions in Section B

Section	n A (30 marks)	
Answe	er ALL questions in this Section	n Xiljem blum aphloon
1.	Define the following terms (a) Phyllotaxy. Amphill	but - phisem completely summer super (1 ph (1 mark)
7	(b) Meristems.	(1 mark)
	(c) Chemical potential. (d) Apoplastic movement not the line of	(1 mark) (1 mark) (1 mark)
2.	Briefly outline the roles of plant physiology in agroforestry	(5 marks)
3. 4.	Describe how plants absorb water from the soil. Using aid of labeled diagrams discuss secondary growth in plants.	(5 marks) (5 marks)
5, 6.	Describe the various relations of xylem and phloem tissues. Discuss the role of the root cap in plant development.	(5 marks)
	n B (40 marks)	mosts to soil - plant particles
Answe	er any TWO questions in this Section, all questions carry equal ma	arks.
7.	Discuss processes by which plants lose water to the environment.	(20 marks)
-8.	Discuss the effects of environmental pollution on agroforestry.	(20 marks)
	Describe the various photosynthetic pigments.	(20 marks)