## NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

## FACULTY OF APPLIED SCIENCES DEPARTMENT OF FOREST RESOURCES AND WILDLIFE MANAGEMENT BACHELOR OF SCIENCE HONOURS DEGREE MAIN EXAMINATION

## PLANT MORPHOLOGY AND DEVELOPMENT: EFW 2101

January 2	2013	Time Allowed	1: 3 HOURS	Total M	arks: 100
<b>INSTRUCTIONS TO CANDIDATES:</b> Answer <b>QUESTION ONE</b> and any <b>THREE</b> others. Each question carries <b>25 marks</b> .					
1. Give an account of shoot elongation in flowering plants, showing how it is regulated by external and internal factors.					
	scribe the difference discribe the difference discrimination of the discrimination of th	ntiation of meris	tematic cells into	o xylem, phloem, co	ortex and other [9 marks]
(b) Co	mpare and contra	st root and stem	primary structur	e in dicotyledons.	[16 marks]
3. (a) Des	scribe chemical in	nteractions amor	ng the seed coat,	embryo and endos	perm. [8 marks]
(b) Dise	cuss the mechani	sms of seed dorr	nancy.		[17 marks]
4. Describ	be leaf external ar	nd internal struct	ure and function	l <b>.</b>	
5. Describe phellogen and vascular cambium differentiation and discuss their functional aspects.					
6. Compa hardwo		action wood and	l other abnormal	ities of wood in sof	ft woods and

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