## EASTERN UNIVERSITY, SRI LANKA Special Degree Examination in Science 2004/2005 BT 403 -Seed Physiology & Technology

## **Answer ALL questions**

Time: 03 Hours		
1.	a. What is a seed?	(25 marks)
	b. Describe a named endospermic and non-endospermic seed wit diagrams	h suitable (50 marks)
	c. List out the uses of seed	(25 marks)
2.	a. "Viability and vigour of a seed lot are a function of seed deteri Comment on this statement.	oration". (50 marks)
	b. Explain the principle of Topographical Tetrazolium Test (TTT Viability determination.	(50 marks)
3.	Discuss the following:	
	a. Effect of storage temperature and seed moisture on the viduring storage.	gour of a seed lot (50 marks)
	b. Influence of microorganisms on deterioration of a seed lo	tt. (50 marks)
4.	<ul><li>a. Define "a dormant seed".</li><li>b. List the different types of seed dormancy and the cause for</li></ul>	(20 marks) or each type. (40 marks)
	c. Describe embryo seed dormancy and the methods to over	rcome it. (40 marks)
5.	Write short notes on  a. Orthodox and recalcitrant seeds. b. Normal and abnormal seedlings. c. Certified seeds and their advantages.	(30 marks) (30 marks) (40 marks)
5.	Discuss the importance of quality seed in crop production.	(100 marks)
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