

臺灣綜合大學系統 114 學年度學士班轉學生聯合招生考試試題

科目名稱	園藝學原理	類組代碼	D07
		科目碼	D0791
※本項考試依簡章規定所有考科均「不可」使用計算機。		本科試題共計	1 頁
一、解釋下列各名詞(每題 6 分共 30 分)			
1. Pomology and Nursery Management			
2. etiolation and blanched cultivation			
3. Cutting propagation and Grafting propagation			
4. Hybrid vigor and Inbreeding depression			
5. Force-air precooling and Vacuum precooling			
二、試說明園藝花卉作物依照生長習性之分類方式，並舉例說明。(20 分)			
三、請問高山和平地的溫度如何影響高麗菜的生理作用，進而影響高麗菜的甜度。(20 分)			
四、請說明乙烯對植物之生理作用 (20 分)			
五、翻譯(10 分)			
Plant propagation plays a vital role in the mass production of plants, helping overcome challenges in cultivating difficult-to-propagate species. Asexual methods such as cuttings, grafting, and tissue culture provide efficient solutions for uniform crop production, disease resistance, and the preservation of specific plant varieties. Low quality seed and poor germination rates affect the availability of planting stock in such case vegetative propagation is the best alternative. Vegetative propagation is a remarkable tool for improving the quality of tree planting stock. Techniques like seed culture, meristem culture, and protoplast culture are explored for their potential in rapid multiplication, disease-free production, and genetic improvement. It is widely used as a means of genotype preservation in clone banks and seed orchards.			