

國立屏東科技大學 九十六 學年度碩士班暨碩士在職專班招生考試

專業英文 (碩士在職專班)

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一、翻譯 (英翻中) (共計 85 分)

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1. Agricultural diversification to meet our future needs calls for the adoption of new technologies in agriculture. Utilization of the best cultural practices, fertilization, pest control measures will not give the necessary results without the use of best planting material. Tissue culture is now a significant horticultural propagation method which has revolutionized the horticultural industry. Use of this technique should be considered for mass propagation the establishment of disease free stock materials. (25 分)

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2. Friedrich Laibach (1885-1967) a student in Strasburger's laboratory in Bonn, attempted to find a plant with a small number of large chromosomes to be used in experiments to determine the individuality of chromosomes. Arabidopsis was not such a plant as its chromosomes are very small. Subsequent to the attempt made by Laibach, another attempt was made by Russian scientists to find a plant that could be used in genetics and cytogenetics, as *Drosophila* was then used. Although the small chromosome number (Laibach correctly counted five in 1907) and rapid time to flower were considered useful features, the small size of the plant and its parts were considered disadvantage, as was the inability to distinguish different chromosome pairs. (30 分)

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3. Attempts to control *Chromolaena odorata* by mechanical, cultural and chemical means have proved either uneconomical or ineffective. Biological control, considered as the main option available to manage this weed, has been adopted in several countries where this weed is a problem. (10 分)

4. The kairomonal responses of *Thanasimus undadulus* (Coleoptera: Cleridae) to semiochemicals used by bark beetles to locate host plants were quantified in the field during the period of the dispersal of one of the species of bark beetles in the spring and early summer. Traps baited with frontalin plus seudenol caught significantly more *T. undadulus* than traps baited with any other lure. (20 分)

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二、問答題 (中翻英並說明主要內涵) (共計 15 分)

- 1.摘要
- 2.前言
- 3.材料與方法
- 4.結果
- 5.討論
- 6.參考文獻