

題號： 266
科目： 植物保護學
節次： 7

國立臺灣大學 114 學年度碩士班招生考試試題

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一、名詞解釋 (須說明而非單純翻譯)(每小題 3 分，共 24 分)

1. Oomycete
2. Parasite
3. Abiotic disease
4. Mycorrhiza
5. Breeding
6. Phytoplasmas
7. Eradication
8. Soil solarization

二、簡述以下微生物對臺灣農業方面的影響；並寫下重點植物保護管理策略 (每小題 4 分，共 8 分)

1. *Phellinus noxius*
2. *Tomato yellow leaf curl Thailand virus*

三、列舉一種在臺灣已登記於生物農藥之微生物學名；以及該類微生物之用途。(8 分)

四、Explain the concept of Integrated Pest Management (IPM) and list its four primary components. Provide one example of how each component can be applied in managing a specific pest. (10 分) (中英文作答皆可)

五、Describe the role of biological control in pest management. Describe different ways to increase biological control efficiency or resilience to environmental changes. Discuss one case study where biological control was successfully implemented, detailing the pest, the control agent. (10 分) (中英文作答皆可)

六、What is pesticide resistance, and why is it a significant challenge in pest management? What factors increases the development of pesticide resistance? Outline three strategies to mitigate the development of pesticide resistance in agricultural systems. (10 分) (中英文作答皆可)

七、請任選五種土壤基本性質，說明其定義和量測方法 (20 分)

八、請說明合理化施肥的基本原理 (10 分)

試題隨卷繳回