

淡江大學九十四學年度碩士班招生考試試題⁷⁴⁻¹

系別：水資源及環境工程學系 科目：環境科學

准帶項目請打「V」

簡單型計算機

本試題共 / 頁

一. 名詞解釋 (30%, 每小題 5%)

1. Kyoto Protocol
2. Self-Purification of the Nature
3. Pollutant Standard Index (PSI)
4. Bio-magnification of Ecotoxicology
5. Biochemical Oxygen Demand
6. Atomic Absorption Spectra

二.(5%+10%) 何謂非點源污染(non-point source pollution)? 如何管理經營非點源污染區域並舉例說明?

三.(10%) 請簡述環境影響評估的意義及其在環境開發決策中所扮演的角色。

四.(10%) 灌溉用水的含鹽濃度影響了農地鹽化的程度，有數種指標可說明水質狀況。請說明何謂 Sodium Adsorption Ratio (SAR)?

五.(10%) 在環境生態及規劃管理相關領域中常以統計方法作為分析的依據，以求客觀的申論。請解釋說明信賴區間(Confidence Interval)的意涵?

六 (10%) 垃圾焚化為處理廢棄物的方式之一，請說明垃圾焚化爐所產生之灰爐殘渣的特性(properties) 及對環境所造成的影響。

七.(15%) Global warming is one of the issues being discussed all over the world recently, especially the extent in reducing green house gases. Please answer the following questions:

1. What are green house gases?
2. How do they increase the temperature of the atmosphere?
3. In what strategies (or methods) you think could mild the global warming situation, or in other words, how could we reduce the emission of green house gases?