

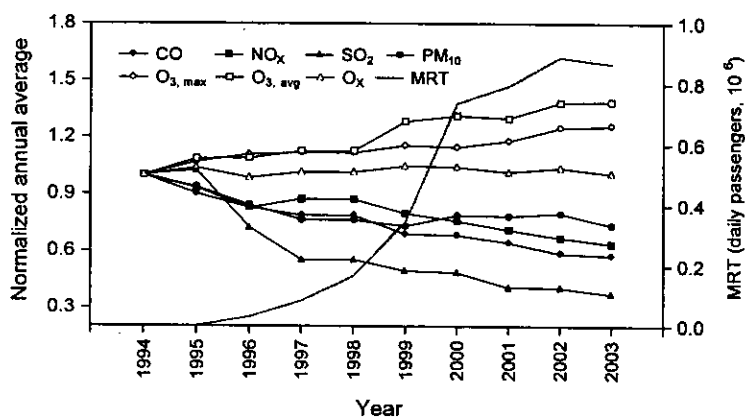
國立中央大學99學年度碩士班考試入學試題卷

所別：環境工程研究所碩士班 乙組(一般生) 科目：環境工程概論 共 1 頁 第 1 頁

本科考試禁用計算器

*請在試卷答案卷(卡)內作答

- List three frequently used chemical compounds and the associated reaction equations to precipitate phosphorus in wastewater. (10%)
- The US Environmental Protection Agency (EPA) Administrator declared that greenhouse gases in the atmosphere threaten the public health and welfare of current and future generations on April 17, 2009. Specify the key effects that support EPA's determination that current and future concentrations of greenhouse gases endanger public health. (10%)
- Commercial sulfuric acid is often purchased as a 95 weight percent solution. Find the concentration (mg/L) of H_2SO_4 and the molarity and normality of the solution. Sulfuric acid has a specific gravity of 1.8. (20%)
- Please specify a logical procedure in managing hazardous waste. (20%)
- What does the attached graph imply in terms of the air quality in a city? The "Normalized annual average" is 1.0 in 1994 in the left ordinate and MRT stands for Mass Rapid Transit in the right ordinate? (20%)



- Chemicals and chemical industries have contributed to prosperous global economic development and improving living standards of millions of people since early 1990. However, inherent hazards associated with many chemicals have also caused severe environmental and human health damages. Please name five critical global environmental pollution issues, you think, are caused primarily by the abuse and over-use of chemicals. (20%)

參考用