淡江大學九十四學年度轉學生招生考試試題

系別： 化學學系三年級　　　　科目：分　析　化　學

准帶項目請打「V」

| V | 簡單型計算機 |

節次： 月/3 日第 5 節

本試題共 1 頁

1. Define: Relative error (10%)

2. Define: tandem mass spectrometry (10 %).

3. Draw a negative feedback circuit and describe the principle (10%).

4. Compare CE with HPLC. (10%)

5. Calculate the energy, frequency and wavenumber of a photon with a wavelength of 10.00 nm.(10%)

6. How to prepare 3.0 L of a 0.015 M solution of HCl (10%)

7. Discuss the principle of size exclusion chromatography. (10%)

8. Discuss the limitations of the Beer's law. (10%)

9. Discuss the principle of a FT-IR.(10%)

10. In a reversed phase chromatography, if three compounds A, B, C will be used in this column, give the order for the retention time for them to come out from the column. The order of polarity is A > B > C. (10%)