

淡江大學九十四學年度碩士班招生考試試題 ⁴⁻¹

系別：化學學系

科目：分析化學

准帶項目請打「V」	
<input type="checkbox"/>	簡單型計算機
本試題共	頁

- 每題十分
- List the name(s) of analytical instrument (s) which can probe the structure of protein.
 - An analyte was investigated by both EI/MS (electronic ionization mass spectrometry) and CI/MS (chemical ionization mass spectrometry) methods (the molecular weight = 79.32). Please write down the ion(s) you expect to observe by both methods.
 - In a normal phase chromatography, if two analytes A and B will be used in this column, which sample will have larger retention time? (A is more polar than B)
 - Define: Photoacoustic effect.
 - Compare carbon - 13 NMR with proton - NMR.
 - Compare the difference of principle for fluorescence with phosphorescence.
 - Propose efficient and feasible method(s) for analysis of drinking water by analytical instrument (s).
 - Compare liquid phase microextraction with solid phase microextraction.
 - Propose rapid and feasible method(s) for analysis of a commercial drug tablet (commercial dosage forms) by analytical instrument (s).
 - Define: LOD (limit of detection).