

國立暨南國際大學九十二學年度博士班研究生入學考試試題

432 分析化學〈應化所適用〉

(本試題共 / 頁, 第 / 頁)

考生注意: 1. 依次序作答, 只要標明題號, 不必抄題。
2. 答案必須寫在答案卷上, 否則不予計分。
3. 試題隨卷繳回。

1. Briefly describe the principles of inductively coupled plasma atomic spectroscopy and electrothermal atomic spectroscopy and briefly compare their advantages in applications. (20 points)
2. Name four major types of mass analyzer and briefly describe their principles. (20 points)
3. Name two x-ray related analytical techniques and briefly describe their principles and applications (20 points)
4. Briefly describe the principles and applications of Fourier transform in analytical chemistry. (20 points)
5. Briefly explain the principles and applications of affinity chromatography and photoacoustic spectroscopy. (20 points)