

科目：分析化學 適用：應化所

編號：442

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. 限用藍、黑色筆作答；試題須隨卷繳回。

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| 本 | 試 | 題 |
| 共 | 1 | 頁 |
| 第 | 1 | 頁 |

Analytical Chemistry

1. Define the following terms in analytical chemistry: (25 points, 5 points each)
 - (1) Precision
 - (2) Molarity
 - (3) Redox reactions
 - (4) Significant figures
 - (5) Hyphenated technique
2. Describe the principle and two main applications of Fourier transform spectroscopy. (25 points)
3. Describe the principle and two main applications of mass spectroscopy in analytical chemistry. (25 points)
4. Name two separation techniques and briefly describe their principles and main applications in analytical chemistry. (25 points)