

中國文化大學 101 學年度暑假轉學招生考試

系組：園藝暨生物技術學系三年級

日期節次：7 月 25 日 第 1 節 09:00-10:20

科目：普通化學

U-6-1

1. A student made a experiment, the data were 2.86, 2.91, 2.87, 2.92, 2.90. Please answer the following questions:
  - (a) What is the mean? (10 分)
  - (b) What is the standard deviation? (10 分)
2. What is the pH of 0.1 M HCl solution? (20 分)
3. Name the following compounds with English: (a)  $\text{Cu}(\text{NO}_3)_2$  (10 分); (b) CO (10 分)
4. Give the expected ground-state electron configurations for the following elements:
  - (a): Cu (10 分), (b):  $\text{Mg}^{2+}$  (10 分)
5. Explanation the following words: (a) Intensive properties(5 分); (b) Electrolyte(5 分); (c) Cation(5 分); (d) Hybrid orbital(5 分)

第 / 頁 共 / 頁