

**國立嘉義大學九十四學年度
科學教育研究所碩士班招生考試試題**

科目：普通化學

一、解釋名詞：(每題 5 分，共 20 分)

1. Hydrogen bonding
2. Buffered solution
3. Surfactant
4. Fischer projection

二、問答及申論題：(每題 20 分，共 80 分)

1. How does VSEPR Theory predict molecular geometry?
2. Define the acid and base with three chemists definitions.
3. Please give us two materials around our living that could be used as indicators. Then, describe how to prepare these indicators.
4. Using commonly available materials, how would you demonstrate that:
 - (a) work produces heat, and
 - (b) heat can be used to do work.