

國立中央大學九十學年度碩士班研究生入學試題卷

所別: 水文科學研究所 不分組 科目: 普通化學 共 1 頁 第 1 頁

• Explain the following terms:

1. Avogadro number (5%)
2. Avogadro's Law (5%)
3. Ideal gas law equation (10%)
4. Dalton's law of partial pressures(10%)
5. Redox reactions (10%)
6. Effect of pressure on solubility: Henry's law (10%)
7. What are the factors which can affect the rate of a given chemical reaction? (10%)
8. Order of a chemical reaction. (5%)
9. The half-life for a given concentration of a reactant. (5%)
10. Rate-determining step in a chemical reaction mechanism. (10%)
11. The pH of a solution. (10%)
12. Given the fact that considerable amount of the gaseous species such as CO_2 , SO_2 , and HNO_3 are present in the atmosphere, what will you expect to see the pH measured in the rainwater? (10%)