編號:

335

國立成功大學109學年度碩士班招生考試試題

系 所:口腔醫學研究所

考試科目:普通化學

考試日期:0211,節次:3

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※ 考生請注意:本試題不可使用計算機。 請於答案卷(卡)作答,於本試題紙上作答者,不予計分。

- 1. Define an exothermic reaction and endothermic reaction. Give an example of each. (10%)
- 2. Please describe and explain (a) First law of thermodynamics and (b) Second law of thermodynamics. (10%)
- 3. Please describe and explain (a) Boyle's law and (b) Pauli exclusion principle. (10%)
- 4. Describe and explain the photoelectric effect and its application. (10%)
- 5. How do the pressure and temperature effect on chemical equilibrium? (10%)
- 6. Explain Millikan's oil-drop experiment. (10%)
- 7. What is a fuel cell? Describe an example. (10%)
- 8. Describe and explain the Haber process. (10%)
- 9. Describe the relation between atomic electron structure and Nuclear Magnetic Resonance (NMR). (10%)
- 10. Write the complete ground-state electron configuration of the strontium atom, Zn, using the building-up principles.(Zn atomic number:30)(10%)