編號:

88

國立成功大學108學年度碩士班招生考試試題

所:資源工程學系

考試科目: 資源處理

考試日期:0223,節次:3

第|頁,共|頁

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

- 1. The definition of terms: (a) Degree of Liberation (b) Electrical double layer (c) Principle of Area (d) Flowing Film Concentration (e) Ferro-magnetism. (15%)
- 2. The purpose of sizing? The definition of particle size? What is major sizing techniques in industry? What is the definition of meshes and standard sieve? (15%)
- 3. What is natural floatability and give five examples of naturally floatable minerals? (10%)
- 4. Please describe or illustrate the mechanism of jig and their operation cycle? (10%)
- 5. Please describe the grinding circuit and derive the circulation ratio through mass balance. (10%)
- 6. What is advantage and disadvantage of rod mill? Please explain the differences of size distribution between ball mill and rod mill. (10%)
- 7. In flotation operations, please list five major modifiers, and give one example of chemical to describe their usage in five categories? (15%)
- 8. What is the mechanism of eddy current separation? What kind of function of material is related to the magnitude of current? Please give three examples of material. (15%)