國立成功大學 112學年度碩士班招生考試試題

編 號: 87

系 所:資源工程學系

科 目: 資源循環工程

日期:0206

節 次:第3節

備 註:可使用計算機

編號: 87 國立成功大學112學年度碩士班招生考試試題

系 所:資源工程學系

考試科目:資源循環工程

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。

考試日期:0206,節次:3

- 1. The definition of terms: (a) Elutriation (b) Cylindrical mills (c) Sphericity (d) Carrier Flotation (e) Spiral Concentration (20%)
- 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. Please describe the grinding circuit and derive the circulation ratio through mass balance. (15%)
- 4. Please draw the figure and describe (a) path of a typical ball in a ball mill, (b) zones in a ball mill. (10%)
- 5. (a) Please describe three main controlling factors of jigging cycle in detail (b) and show the distribution of minerals on the jigging cycle (10%)
- 6. Please describe three major controlling factors of shaking table in detail, and show the distribution of minerals on the shaking table. (10%)
- 7. Describe the mechanism of collection. (a) collection of Pyrite by Xanthates, (b) collection of Galena by Xanthates, (c) collection of Feldspar by Oleic acid. (10%)
- 8. Please describe the figure about electrostatic separator. (10%)

