

國立成功大學

111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：0219

節 次：第 3 節

備 註：可使用計算機

※ 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) Liberation (b) Heavy-fluid separation (c) Spiral Concentration (d) Natural floatability (e) Ferromagnetic. (15%)
2. Please describe the grinding circuit and derive the circulation ratio through mass balance. (15%)
3. Please explain the differences between Free Settling and Hindered Settling? (10%)
4. Please describe and illustrate the mechanism of jigging separation. (15%)
5. Describe three main controlling factor of shaking table in detail. (15%)
6. In flotation operations, please list five major modifiers, and give one example of chemical to describe their usage in five categories? (15%)
7. 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%)