

國立成功大學  
110學年度碩士班招生考試試題

編 號： 86

系 所： 資源工程學系

科 目： 資源處理

日 期： 0202

節 次： 第 3 節

備 註： 可使用計算機

編號： 86

國立成功大學110學年度碩士班招生考試試題

系 所：資源工程學系

考試科目：資源處理

考試日期：0202，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) Ratio of concentration (b) Locking Factor (c) Heavy fluid separation (d) Carrier Flotation (e) Spiral Concentration (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. (a) Please describe three main controlling factors of jiggling cycle in detail (b) and show the distribution of minerals on the jiggling cycle (10%)
4. Please compare advantage and disadvantage with ball mills and rod mills. (10%)
5. Please describe the grinding circuit and derive the circulation ratio through mass balance. (10%)
6. Please describe (a) path of a typical ball in a ball mill, (b) zones in a ball mill. (10%)
7. In flotation operations, please list five major modifiers, and give one example of chemical to describe their usage in five categories? (10%)
8. (a) Please draw the figure of high voltage separator and describe its mechanism. (b) What is the mechanism of eddy current separation? (10%)
9. Please describe three major controlling factors of shaking table in detail, and show the distribution of minerals on the shaking table. (10%)