

九

國立臺北科技大學

九十三年學年度工程科技研究所博士班入學考試

材資組 資源工程導論試題

填准考證號碼

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注意事項：

1. 本試題共四題，配分共 100 分。
2. 請按順序標明題號作答，不必抄題。
3. 全部答案均須答在答案卷之答案欄內，否則不予計分。

1. What is the "Standard Cycle" for surface mining? Summary of unit operations comprising their conditions and equipments. (25%)
2. Try to design the following flowsheet (describe the particle size, equipments in each stage) (25%)
 - a) Crushing and grinding a marble (average particle size about 80 cm) to 200 Mesh.
 - b) Crushing and grinding a limestone (average particle size about 50 cm and the raw materials include large amount of particle which less than 10 mesh) to 10 Mesh.
3. Use Brown's Reaction Series to explain the mineral phase transfer, crystalline and grain size in granite. (25%)
4. Explain the following terms regarding geology (25%)
 - (1) Water table
 - (2) Texture
 - (3) Landslides
 - (4) Outcrops
 - (5) Anticline
 - (6) Overturn
 - (7) Dip
 - (8) Erosion
 - (9) Joint
 - (10) Contour