

國立臺北科技大學

九十二學年度工程科技研究所博士班入學考試

資源工程導論（材料及資源組）試題

填准考證號碼

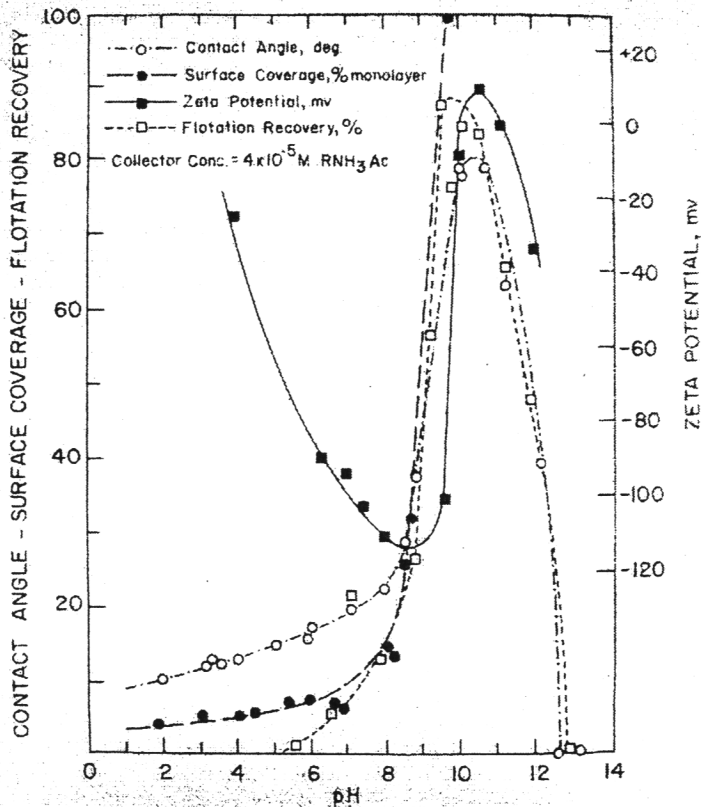
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注意事項：

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. Quartz flotation results are show in the following figure. Please describe the correlation between contact angle, adsorption density, zeta potential, and flotation recovery. (25%)



2. What is "Debris Flow"? What kind of geological factors will tend to occur the debris flow? How to prevent and predict a debris flow? (25%)
3. What kind of equipments can be used for crystal structure determination? Describe the detail of these equipments and the methods. (25%)
4. Explain the following terms regarding Mineral Resources Exploitation (25%)
 - (1) Longwall
 - (2) Raise
 - (3) Placer Mining
 - (4) Reclamation
 - (5) Dimension-stone Quarry
 - (6) Shaft
 - (7) Overburden
 - (8) Stripping Ratio
 - (9) Room and Pillar Mining
 - (10) Hydraulic Shovel