題號： 70
科目：地球構造
節次： 2

國立臺灣大學 102 學年度碩士班招生考試試題

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1. 解釋名詞（40 分，每小題 5 分）：(1) pitch and plunge; (2) turbidite; (3) angular unconformity; (4) stress tensor; (5) non-coaxial strain; (6) Poisson's ratio; (7) parallel folds and similar folds; (8) antiformal syncline and synformal anticline.

2. Please describe the Griffith's theory of cracks (請描述 Griffith 的裂縫理論？)(5 分)

3. Please drawing block diagrams of faults to show (a) dip separation, strike separation, heave and throw, (b) Map view showing how separation depends to the orientation of the offset layer and dyke, (c) Block diagram illustrating horizontal [H] and verticle [V] separation, as well as dip [D] and strike [S] separation. (請繪製立體圖顯示斷層的（a）傾角分隔，走向分隔，heave and throw，（b）地圖視圖顯示分隔取決於如何分割不同方位的層及岩脈，（c）立體圖說明水平[H]和垂向[V]的分隔，以及傾角[D]和走向[S]分隔。(15 分)

4. Explain the uplift of Tibetan plateau by lithosphere delamination. (10 分)

5. Explain the possible process leading to the formation of curved fold-thrust belts by map-view sketches. (10 分)

6. How to use the cleavage-bedding relationship in an outcrop to determine the facing (younging) of a large regional fold? What is the assumption of genetic relationship between the cleavage and folding. (10 分)

7. What are the causes of rifting? (10 分)

試題隨卷繳回